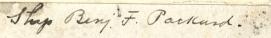


This Log Book of the This Benj & Vackard,
was presented to me, by Captain Patrick Ryan,
Tomaster of the Ship, on Tept 21. 1926. - at
New York City.
Dearstner Offerse

Jaunton Mass.







LOG BOOK.

Voyages of the

Thip Benjamin F. Packard. Raunches at Bath maine - 1883.

Commanded by



CHAS. J. HENDRY,

DEALER IN

SHIP CHANDLERY AND NAVAL STORES,

SAN FRANCISCO.



Francisco Cal towards New York Thursday May of May WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. teas Sby & Fresh bear from the Royal al- 8 am stored The Royals. strong wind and popular weather middle & Latter part 386 The same Verious ley omplo IO 12 Sookont Looked after Dby 8/16 388 II 26 Days Coul. 12 Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. 5. 200 131.06 197 19 20000 1953 WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 67 May SEly 8/28' East The Gast and squally weather. h and squally ram squales. 5'83/45 and lay tre untill day light - at 5-30 II 12 Sisis is & moderate wings and blowdy weather P.M. 18/26 88 6 5'hs Sumps sidelights to 21 Days Out 10, 39 130,30 34 514'04 6 138 133 22068 21.56

From Jan Francisco bal towards New York	From San Hanus is led towards H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 2 day of may 1882
H. K. 1/2 K. Courses. Winds. Leeway. Temp. AIR. TEMp. WATER. BAROM. Salverdee 7 day of may	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 9 day of may
	A.M. I 3 3 S'E 1 8. Lile air from the
3 8 4 8	3 2 4 2 / Clowdey
5 & Sily 8/28 The East Clowdey	
7 8 weather Reparing sails	62 72 middle
and engaged in ships	8 2 hart the same
duter midely hasts	2 South hart set up
P.M. I & S'S'E. Sister weather Lather	12 2 Tou Top marst Digalant
	P.M. 1 2 Royal & Skyrail back
3 8 4 8 hart squalley	stages. Lite aur
	5 6
Funns sidelights de	7 / 22 / 21 / 20 / 2
	Rumps Sedelights I dook out
Lookont Looked aftr	
12 7 22. Days ant;	12 2 2 2 24 Days ant
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. S 2 8 8 /90 /87 33 25 63 245 88 5 26. /38 54	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob.
H. K. 1/2 K. Courses. Winds. Leeway. Temp. AIR. Temp. Water. Barom. Sunday 8 day of may	S 33 45 8 46 38 24 27 27 27 42 28 17 W : H. K. 1/2 K. Courses. Winds. Leeway. Temp. Air. Temp. Water. Barom. Remarks. 10 2 day of may Tauesday : May 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
A.M. I / SXL SY2 S' &/ />	A.M. I 4 SE &ME Site owinds from the
modrate svend	2 4 Sist East bending Fore & main
from The Earlward	4 4 sepher Tages ail Fores all
5 6 Siens' middle front to	5 5 8 mainsair, at 6, am 6 5 stoiet skysails Fore & miggen
8 6 Same Latte part	8 8 SE Marin degalant story sail file top sail.
9 6 8'8. 8h 4 lile winds and	1 98
II 6 12 6 Clorwdey.	10 8 11 8 Main Royal. 8. 30 Pm
P.M. I 5-	P.M. I 8 Segalant sail, ditter of the
3 3-	3 8 38 48 Alowder weather
4 7	5 10 8'E/28 2126,
7 4 Primps Lidelights-8	6 10
8 7 1/8 9.	89 910 Sookout Lookid after
200 kout attended too	9 10 lookout Lookid after
11 7 23 Days aut	11 /0
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
S 28 07 8. 123- 110 61 2648 2649 1:08 128,45.	S' 28 07 & 187 164 84 29 33 - 3°, 1°, 47 126.58

	Fron	" San France	LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. WREMARKS A 12 day of may 1860	From	San Francisc	o Gal towards New York
	Н. К.	½ K. COURSES. WINDS.	LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. WREMARKS and day of may 1886	Н. К.	½ K. Courses. Winds. Lee	WAY. TEMP. AIR. TEMP. WATER. BAROM. 4 REMARKS. 13 day of May 1882
A.M	I. I /0 2 /0	5'8/26 ME	Strong grand 1	A.M. I 7	8/2 8 South	
	3 (0 4 (0 5 (0	sely e.	Cloudey weather rowe new Main Alu garnets	3 6 4 6 5 6		squalley weather set reefed Fore of missin
	6 /0 7 /0 8 /0		buntling 4. 30 am	5 & - 6 & 7 Q		reefed Food of Miggin Topsails. Rove Wew
	9 /0		meddle, part strong wind	8 7 9 7 10 7	Elys'	8. am set whale Toprails 9. 30 pet degalant sails
P.M	11 /0 12 /0 1. 1 /0	1100	squalls att 12. slowed fore degal out sail	11 8		Royals of at 4 8m stoed
	2 (D 3 (O 4 (D		230 stock marin deg al out sail heavey squalls of	P.M. 1 8 2 8 3 8		Royals strong wind and Isqualley. I b. I'm stood mission degalant sail outer
	5 7 6 7	hm	Satter hast 4 P.	4 8 5 /0 6 /0		file? T. I'm stood ford mound degalant sails, reefed fore of makin Topsails. I stood mishen
2.76	8 7		moderated cleaned up hall ed to the sh	7 (0 8 // 9 //	& 3/4 M. &'S'W	Topsail strong gale from
•	10 6 11 6 12 6		Primps sidelights Lookout attended too	10 //	Sump	s sidelights of Lookout- attended too
0	Course.	Distance. Diff. of Lat. Departur	re. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course.	Distance. Diff. of Lat. Departure.	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
4	75,066	2/0 /48 /48	- 33.63 33.01 5: 2.53 /24.05	878.45.6	205- 40 /81	35.38 35-19 8, 3, 61 /17.38
	K.	/ZA. COURSES. WINDS. L.	EEWAY. TEMP. AIR. TEMP. WATER. BAROM. TREMARKS. 12 day of may		½ K. Courses. Winds. Lee	WAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 147 day of May
A.M.	. I 8 2 3 4	Seg & WAN	modrate ward from	A.M. I // 2 /0	8/2 m S'8'm	Strong tale from the
	4 8 5		The WMW Cloveder weather at 12. midnight	3 (0 4 (0 5 (0	East	8'8'm & with squalls of wind & ratin 430 more modrate set
	7 8		niffin degaland sails	6 10 7 10 8 10		and milden degalant
	9 9 10 9 11 9		Dail Strong wind and	9 10		file. Heavy swells from the & & m. 9. Im
P.M.	12 9 1 10 2 10	3	squalley tweather 5.30 d stoed manidegalon T sail, & Pm reefed Fore	11 9 12 9 P.M. 1 8		set Rajals.
	3 10	8/2 5'	mussen topsail stoled upper ptors upper Fore Topsail	2 7 3 <i>r</i> 4 <i>r</i>		Pumps sidelichte - I Lookout
	6 10			5 7 6 7		Tumps sidelights-t dockout
	8 /0	East South	Pumps Sideleghts & Lookout	8 7 9 9	88'& S'W	
	11 6		27 Days Out	10 /0 11 /0 12 /0		28 Days Out
	Course.	Distance. Diff. of Lat. Departure	Lat. by D.R. Lat. by Ob. Variation. Diff of Lon Longin	Course.	Distance Diff of Lat Departure	e. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
S	44.00 %	187 185 1729	35.4 34.56 8. 2.36 121 28			3604 35.37 8°, 4°13 1/3 25 m
				200		

From Sam Frances	is led Win gork	From San Francisco C H. K. 1/2 K. Courses. Winds. Leeway. TEMP. AIR.	towards al New York
H. K. ½ K. COURSES. WINDS. LEEWA	Y. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. (2) day of May 1891	H. K. ½ K. Courses. Winds. Leeway. TEMP. AIR.	TEMP. WATER. BAROM. REMARKS. 1 day of may 1884
A.M. I 60 S84828 WSW	Y. TEMP. AIR. TEMP. WATER. BAROM. S. REMARKS. 15 day of may 1891	A.M. I /6 85'& 8'8' W	7000,000
3 [[05	3 //	This day strong wind
5 //	the grand from	4 11	and squalley sweather set fert & main Royal
6 //	the WSW and squally weather shipled might	5 //	at 50,80 stoed the Royals
7 //	Legalant pail	7 10	Strong squalls
9 8 8 8 8	rook new mein Keuf	8 10	1.30 stoed missen degalan
10 9		10 //	- to sail 2,300 sloed
12 8	& am stood Koyals Squally weather with	11 //	Fore Olegalant sail, 4,00
P.M. I	Ledhtming	P.M. I // 8by 51/28'	Im stored main degalont sail . Strong wind from
3 8	Latter part The same	$\frac{2}{3}$ $\frac{11}{11}$	The South L. g. Pm.
4 8	The saint	4 11 South	set main degalant soul
6 8		5 /0	degalant said and set
7 8	Samps sidelights to Sookerit flooked	7 9	Til- mere modrate
9 9	Sooken't Looked	8 9	de Milliam Brown Bootsware
10 9	of or	9 9 8/28'	Premphe Sidelicht & Sunkout
11 7	8. 8 0 8	11 9	Tremps Sidelights & Lookout
	30 Days and	12 9	32. Dys Ont
Course. Distance. Diff. of Lat. Departure. La			Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
	8 27 38 08 8 10°, 3°21 110 09 W TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 16 day of may 1892	3 5 7 4 8 25 8 / 3 0 2/4 42/3 2 H. K. 4 K. COURSES. WINDS. LEEWAY. TEMP. AIR	TEMP. WATER. BAROM. REMARKS. 19 day of 1808
A.M. 1 9 5848 SW		A.M. I 9 Sily 8/28 South	TEMP. WATER. BAROM. WE GENERAL S. 1802
2 9	Fresh brease from	2 8 Doly 6/26 Douth	O' O
3 7 4 9	The sw. all sail set	3 8	Fresh brease from
5 9	4, ou am stoed Royals	5 2	the south at 1. am bet my fin Degatount
6 9	dark Clouder weather	6 9	pail)
8 9	Train which aentinued	7 9	middle & Latter front
9 9 56 88/2	Through the day	9 9	String wind with
111 9	4	10 9 58 ly &	Fregment squalls of
12 8 C1		12 /6	with and rain
P.M. I 7 72		P.M. I [0]	
3 9 1/2		3 11	, 00
5 9 8675/18'	Look out atterided too	4 //	De abservation
6 9	onignes 100	5 // 6 //	
8 9		7 //	0 1111
9 8		9 11	Samps dedelight - to door attended low
11 20		10 11	
12 (0	31 Days ant	11 //	33 Days Cont
Course, Distance. Diff. of Lat. Departure. Lat	by D.R. Lat. by Ob. Variation Diff of Lon Lon in	Course. Distance. Diff. of Lat. Departure. Lat. by D.R	
8 58 26 8 216 128 174 40	40 04 60 40 100 106, 64	S'47.48 & 243 12 173 44,4	
		13 17,1	

F_{i}		e led towards New York	From San Francisco leal towards New Gork
H. I	K. ½ K. COURSES. WINDS. LEEW	AV. TEMP. AIR. TEMP. WATER. BAROM. 7 REMARKS. 19 day of hay 18 %	H. K. ½K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 21 day of (\)
A.M. I /	12 83'E SSW	Fig. 1. The contract the straightful $oldsymbol{V}_{ij}$ is $oldsymbol{V}_{ij}$ and $oldsymbol{V}_{ij}$ in $oldsymbol{V}_{ij}$ and $oldsymbol{V}_{ij}$ and $oldsymbol{V}_{ij}$ in	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. Salurday of May 1897 A.M. I 5 8/6/16/16 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
2 /		the S'S' We winds from of wind to rain halls	A.M. I 5 886/28/28 18 W
3 /		the s's' los with a such	2 2 h
4 /		of wind & rain	2 5 Sile wind from the Army 8'8'm
5 /	0		5 5 2 Suploid
6	9	3.30 am stoed miggen Degalant seil y andgen	6 6
$\frac{7}{8}$	9 8/28	Degalant sail 4 and	7 6 at 7.30 stoed skypails
	7 012 0	Dice of trans to law .	8 6 milhon Round main
10	7	degalant sail streng	9 8 SELE desall ant-Ostograil
II	7		TO &
) 12	7	middle and Latter	11 8
P.M. I	6 East South	at frant more modrate	P.M. I & and Clewdey awather 2 & 3 9
2	9	at. 8. I'm reefed from	2 g -
4	7	main our aignit sail	2 8 6
5	7 8/28	and set then 8,30	4 9
6	7	set miggen degalant sail	5 10
7		Y O	6 10 7 10
8 4			8 10 Punta Lud I all A
9 4	& by s'	James Sidelights I Lookent	8 10 9 11 Lookoul- attended too
10 0		Tumpr Sidelights I hovkout	IO //
12 6		34 Days Out	II !! 36 Days ant
		of Days and	12 //
Course.	Distance. Diff. of Lat. Departure. L	at. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by Ob.
p 61.30	6 174 74 172	1558 45,53 11: 4: 00 93 23 m	\$ 36.84 8 180 152 118 485384847 17,20 2,53 88 57
H. K	Z. ½ K. COURSES. WINDS. LEEWAY	V. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 20 to day of may 1892	H. K. 1/2 K. Courses. Winds. Leeway. Temp. air. Temp. water. Barom. Remarks. 22 day of may
A.M. 1 6-	3868/18 288	J. May	sunday ? may
2 4		Lile wind from the	A.M. I // 38by & Mr&
3 4		S'S'E. Cloudy weather	2 // Strong brease from the
4 4	6	from 8 am to 7 Pm	3 // Mr& at 6 am reeled & stoed degalant sails
5 7		Carlon & Im lete	5 1/ 6,30 ptoed upper Fore to
7 /		air from the MINN	mullin Totasakil reeled
3 8 1		dank blowdy weather	7 10 main Tolls ail to mains ail
9 (The same and the s	we san ser	8 10 strone gale from the MYE-
IO			9 10 Thish raining 12, to He the more moderate
II	28		10 10 whole topsails For I main
P.M.		So Observation	12 10 degalant sails mais Royal
P.M. I	.03	To Closervalian	P.M. I 8 madrate wind and Rogins
3	16		P.M. I & modrate wind and foggers.
4			
5		Primps Didilights & Soupout	5 ? Bo Observation
0		attended for	6 7
8 9.			
9 2	Sit \$ 2 /2 6, 15 mm		8 7 9 7 886 NW Primps sidelights & Scokout
10 3	7.07,07		9 7 886 NW attended too
11 3		1 2 2 2 2	IO 8
12 5		35 Days Court	
Course;	Distance. Diff. of Lat. Departure. Lat	by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	12 8 Says ant
845 00 8	33 23 22 4	Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob.
6	7. 78 4	621 - 12:20 33' 8250 h	850 37 8 218 168 132 57 35 - 17,20 3°22 8635-W

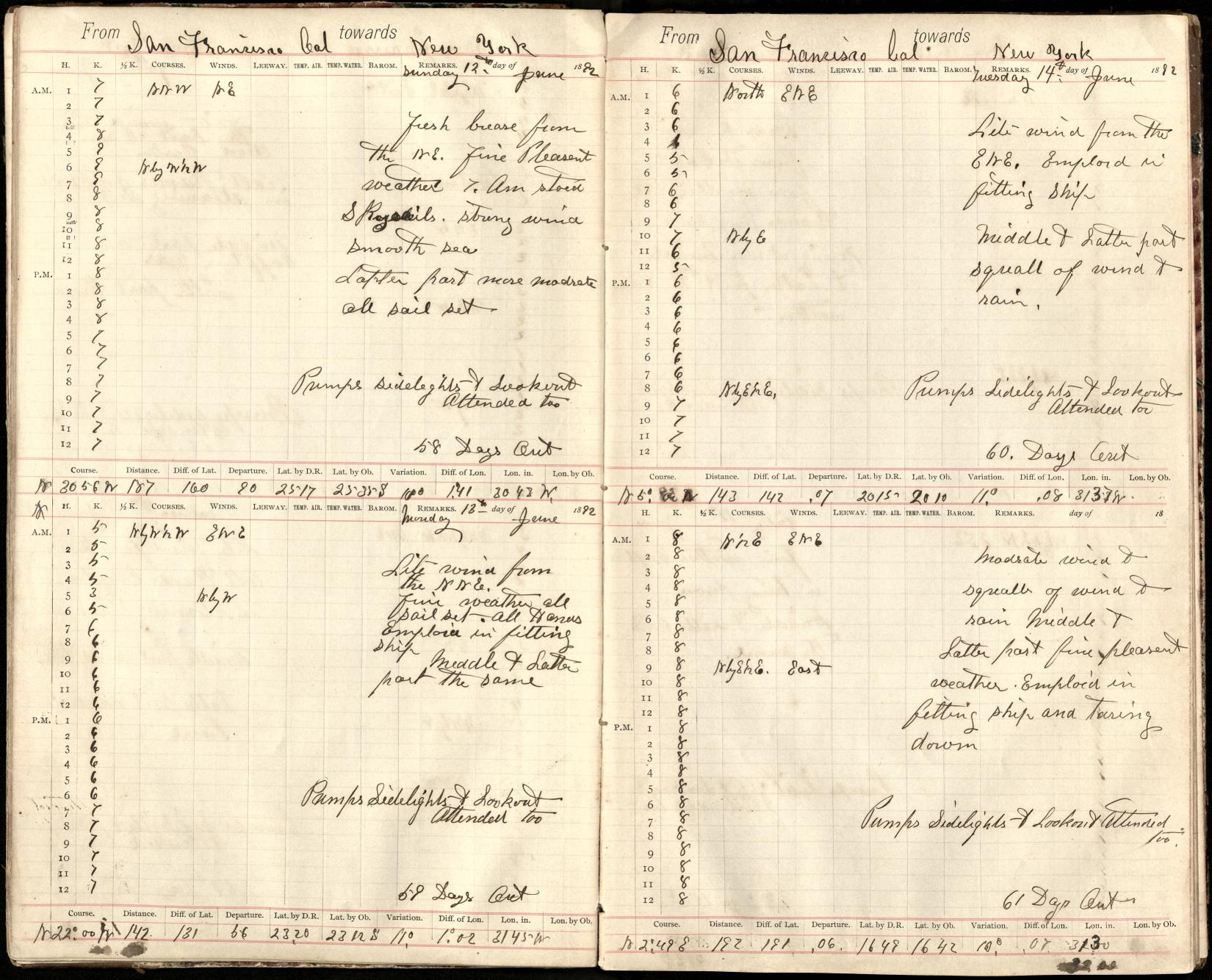
	From	Dan Franci	towards New York	From San Francisco	30 Cal towards New Mark
A.M	H. R. 72 1. I 9 2 9 3 /0 4 /0 5 /0 6 /0	ESS SMM Elg 3'/25'	Fresh brease from The Am with driffling rain	A.M. I 4 & & & West 4 4 4 5 5 5 5	West and from the
P.1	7 (0 8 (0 9 (0 10 (0 11 (0 12 (0	3 Muchan	with driffling rain to foggey weather 7,30 am stoed main Koyal fre degalant sail strong	12 7/2	at 6, am wind \$3 m lite with for set million the degulant paid outer file reafled mainsail 1.30. am wind bouth 12 to 4 fush brease with squalls of rain snow to haid, at 40 m respect fore degulant sail
	2 /0 3 9 4 9 5 9 6 9 7 8		Latter part more moderate	3 9 4 9 5 6 6 6 7 6 8 6	bafting winds one Bark insite bound to the months wast.
,5'	9 9 9 7 7 10 9 7 7 11 9 7 7 12 9 7 7 19 8 8 8	Distance. Diff. of Lat. Departure.	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 54035'— 22, vo 4'46 81,49 m	9 6 10 5 11 5 12 5 Course. Distance. Diff. of Lat. Departure.	Diff. of Hon. Hon. Hon. By Ob.
A.N	H. K. ½	K. COURSES. WINDS. LEE	WAY. TEMP. AIR. TEMP. WATER. BAROM. Juesday 24th day of may 1892 Strong wind from The rest of an air degalant soul G am stock for degalant	H. K. ½K. COURSES. WINDS. LEE A.M. I 2	WAY. TEMP. AIR. TEMP. WATER. BAROM. YREMARKS. 24 day of may 1892. Thus day lile aux from the smith. I am wind Worth. I am wind Worth. I am wind
Р.М	7 // 8 // 9 /8 10 /0 12 /0		middle & Latter more modrate Latter heart lile wines from the Mist set degalants pauls mann Royal still Kanger	6 3, 7 5, 8 5- 9 7 8 4 7 10 11 8 12 8 P.M. 1 6 East	Joil segel upper hais degalant soil segel sport mais degalant topsail. Suit our 1000 Pm set degalants poils mais Ryal. I make pib-, lik-wind
	2 3 4 5 6 7 8		Samps didlights I Lookouts	2 6 3 6 4 5 6 6 6 7 8 5 5 6 8 5 7 8 7 8	Pumps Didelights & Lookerst
5	9 3 10 5 11 5 12 5 15 6 15 6 1	Distance. Diff. of Lat. Departure.	Made Willram Brown Boatrwain 39 Dys ant Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 5-5-3-3 22 40 4342 7767 h		Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 5730 St — 24° 00 2,51 7028 M

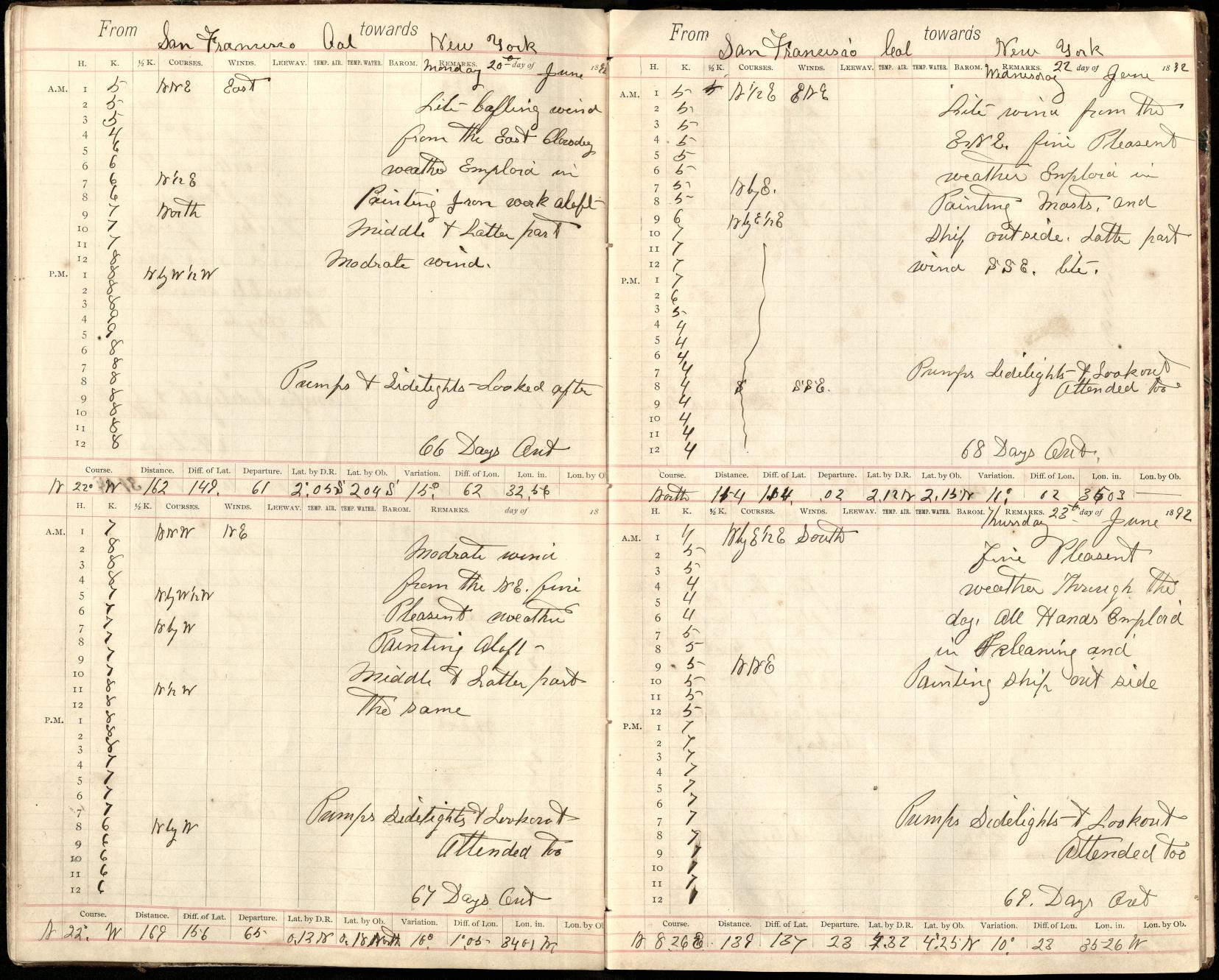
From Sun 3	towards New York WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. TREMARKS. 27 day of may 1812	From San Francis	towards New York EEWAY. TEMP. AIR. TEMP. WATER. BAROM. SUREMARKS. 29 day of May 1892
A.M. I 4 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2	WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. TREATMENT day of may	H. K. ½K. COURSES. WINDS. L	EEWAY. TEMP. AIR. TEMP. WATER. BAROM. SUREMARKS. 29 day of May 1890
2 4 10 00 00 10 00 00 00 00 00 00 00 00 00		A.M. I & A8hr SW	
4 3	Lite on fun the	3 4	the s'm at 8 30 Heary
5 3 6 4	NWW with think	5 6 6 PE	squale of Harl & word
7 4 18/218	fegger weather	7 5	the 8'W. at 8,30 Hearn se rate of Harl & world blood the polypails for 8 mingin Regal to lerotabel
9 6	middle hart the	9 37	Budwood banks
	madera frank Inc.	11 5	middle & datter front lite wind from the 8'm
P.M. 1 7	same Lathe fronts	P.M. I 67	wind from the 8th
3 7	While SW. think & Cloudy	3 37	
4 7 78 hr	No Observations,	4 5 2	
7 8	11	6 2 :	
9 8	Sumper Dedlight & Loo kout attended for below to boal looken	8 2 5 7 9 V	Parmels sidelights + Lerkout
10 8	Shiftia Caal from below to Goal looken	10 2	anomaco por o
12 8	42 Days Out	12 3	44 Days Out
1 61 62 6 1112 60	Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure	re. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
H. K. ½K. Courses. V	VINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. Saturday May 1892		EEWAY, TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 30 day of may 1818
A.M. 1 7 / 186/18.	D'W	A.M. 1 57 18. 6 S'8. 6	b, t
3 7	modrate wind from	3 6	The 3'8'E. Amouth water all said sel-
5 2	The SW Clowdey weather	5 8	all sail set-
7 8	at 12, mednight wind,	6 8	10.30 Strong sound
8 8	S'W. Squally, and bafting	8 8	The skysais & Royals
10 6	8. Pm all said set.	10 8	main degalout storsand
P.M. 1 7	8° W	12 10 PM T 10	Jil Tapsails
2 3		2 60	haller hort wind south all sail sil-
4 7	w	4 10	south all sail sil-
6 7 6	w Printer Sidelicht & Composit	5 11 Mr. 8 South	no Cobservation i
8 6	W Trumps Sidelights & howhout	8 10	Sumbs sidelichts &
10 6	Ullended los	9 8	Sumps sidelights A. Lookout allended
11 /	43 Days aut	11 8	46,500
Course, Distance, Diff. of Lat.	Departure. Lat. by D.R. Lat. by Ob. Variation, Diff. of Long in Long by Ob.		re. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
18 56 (5: 8, 163 90	135 64,648 64,48 200 3:16 63,00	A 56, 158 201 111, 176	54,598' - 18° 4°47 54.10 m

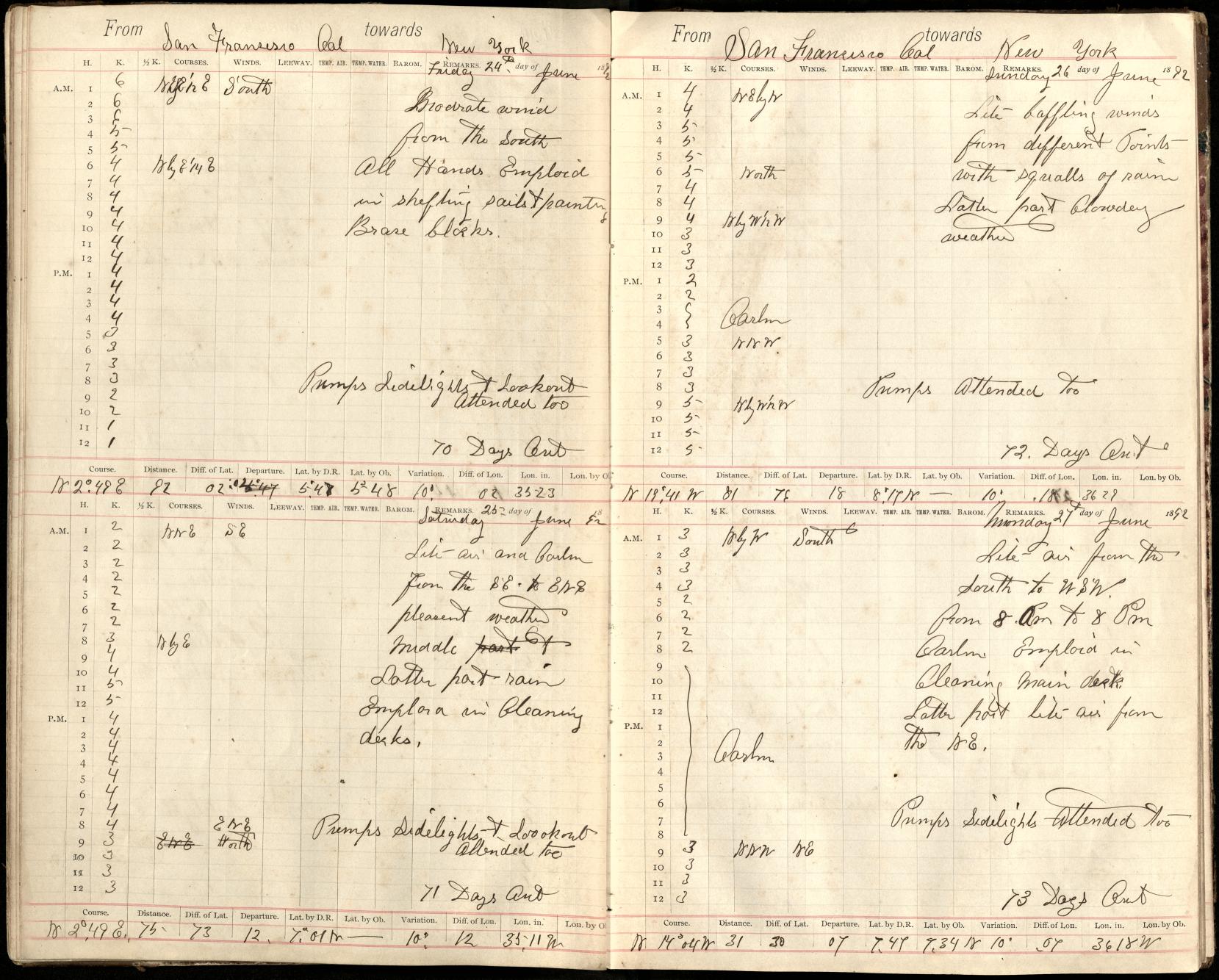
		From			pan	ineo							Fr	rom	San	Fran	rese	e le	(toward	is No	u y	erk	
A.M.			1/2 K. COUR		S'S'W	LEEWAY. TEMP. A	IR. TEMP. WATER.	BAROM. Jan	REMARKS. 3	la day of	may 18/3	A.M.	11		K: Courses.	WINDS.	LEEWAY.	TEMP. AIR. T	EMP. WATER. BAR	OM. Three	ARKS 2	day of \\	ne 189e
	3	78						dt.	madra gigil	ite me	nd from sail but		2 /0	5	Belys	DN			0	7 Tre	h bre	are been	The
	4 5	8 6	nely	ryk				and	Island	e in 8	hun		4 8)					D)	m. a	nd squat	really and in misser	tuck
	6	65						MY	v Ilil	a, 48	wind In maded who wath	3	6 10						Maso	11	Im.	Low of	main
	8	4	MA	7 %									8 /0)				So	us s	trene	gale	Degalar Janel of win	u-
	IO	3			mm			- nous	atte fr	est the	reng nother	•	10 /0 11 /1)					round	5/3	atter	front insail,	01 1)
P.M.	I 2	3						The	Kozal	s fil	sin equal i	Р.М.	12 //		88/2N				on	e shi	h in.	bili-bo	rend
	3	6			- 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								2 /2								() 00000	J	J
	5	7	1231	. M									4 /1 5 / 1	1		109							
	7 8	8	// 6 /	4 / 6									6 /0	1	18	92			Pum	(ns s)	idelig.	hls-to	
	9	9					Comp	bid of	elighte	A La	akout to		8 /0 9 /0 10 /0	0		7			dov'	Rout	Looke	dafter	
	I ₁	9		1. V		ì				wr Or			10 /0 11 /0 12 /0	1						40	Y-	, 00	X
		ourse.	Distance.	Diff. of I	at. Depar	ture. Lat. by D.	R. Lat. by O	b. Variatio	on. Diff. of I	Lon. Lon. i	in. Lon. by Ob.		Course.		Distance. Diff. o	of Lat. Depa	rture. Lat	. by D.R.	Lat. by Ob.		0	Lon. in.	Lon. by Ob.
18.	н .	K	½ K. Cour	SES.	WINDS.	LEEWAY. TEMP. A	R. TEMP. WATER.	BAROM.	REMARKS.	5 51 5	15W June 18 94	18	5 8 7 н. к	8 -	2450 16	4 18	2 4	4,11	4400	160	4:22	42,54 h	10
А.М.		10	1286	m /	An			,		r (A TOTAL SECTION AND ADDRESS OF THE PARTY OF	1 /0	1		ms'm	ДИДWАТ.	IBMF. AIR. IE	Mr. WAIDE. BARC	Tride	ARKS. 3	day of Jam	1882
	3	10						The	is day	strong the mr	wind 2, 30 stora	1	2 /6 3 /6						This set his	dey le	eg ins e	nore how	dent
	5	11	p.8	7	rpw			hus	ffera ol	legalan	t sail		4 /0		86/28			Do	ril. X	mari	Royal	miner 2 30 lh	til
	7	11						out	tofil	h pqua	lls of		6 /0)				in	mou	in Ro	yest or	the Br.	
	9	12	1892	8			slad	fed hais	Lin to	main Jusail 8	Topsail mainson		8 9 9					stor	Il fer	& mo	lint?	missen sha	
	11	10					with N	ters h	eavery 1	n the V	s of wind		10 8	7				. or	uped	Lin	mani	I hlight	in
Р.М.	12 I	9	me.			to t	he si	v. mor	u moo	brid h	as b souelle	Р.М.	1 9)	rege.	m		Steec	· refra	1 my	16 in to	prail.	strong
	3	9		e e	8'm	degalo	set de	whole il ?	Topes or	els ma	sel-		3 /6					of a	nach.	1,030.	er John	sails of	ore
N	5	77				by no	lley.	Gren	1 the	sir as	nd		5 /1)	7	mm	2	abor	soul	10/15-1	of il	s. s.h.	lower
	7 8	8						Pauns	s sede	lights >	t Lookard-		6 7 6)	1		per	nan	. hear	vel s	s ever	ged who	u -
	9	2					Ç	ellid	le loc				9 8	2			sa	in,	Det In	round	spine	the,	*
		10						4	or So	ys Ont			10 7			Samp	s dia	leligh	6 and	Louk	out al	Tended	Too
	Co	ourse.		Diff. of La	at. Depart	ture. Lat. by D.R	Lat. by Ob		/6	Lon. Lon. i		New York	I2 Course.	. T	Distance. Diff.				4.	8. Day	s aul		And the second of the second of
1	36,1	5.6	A A -	129	186	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	46.53					r		ر ع	222 /3	7 17	7 4	148	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in. 38,42 W	ap managements between the second
			(a) " y s (a)		ARCS ARE																		

From Jan Francisco	Bal towards how york	From Jan Francisco bal towards You York H. K. 1/2 K. COURSES. WINDS, LEFWAY TEMP AIR TEMP WATER PARON A PRINCE AND MATTER PARON A PRINCE AND PARON A PA
H. K. ½ K. Courses, Winds. Leeway.	TEMP. AIR. TEMP. WATER. BAROM. Sulturday 4 day of June 1892	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 6 day of June 1882.
A.M. 1 5 /26. 127	HOUR SEAN (SEAN SEAN SEAN SEAN SEAN SEAN SEAN SEAN	A.M. I 10 18/21 MW
3 5	The prix me fall from	Jush brease from
4 4	The Irir mon lam bent hower main	The brease from The W. main skysail Let 4, am wind work
5 4	Topsail. and keeped fere pail.	
7 4		middle & Latter part
8 2/	at 7:30 set reefed topsails	8 8 Emploid in'
10 7	seefed mains ait Inhur Jil. more madrate	9 6 Reaning pair t- avork
II · 7		II b
P.M. 1 7	Latte hart all sail set	P.M. I 5
2 7	moderate brease from the	2 6
4 7	Latte fart all sail set moderate breare from the	3 4 m
5 7		5 4 128
		6 4
8 7	Pumpe Sedelight of Lev kout	8 4 Augusta Did light & la factor
9 7 18hm. 12m	Sumpe Sedelights & Lev kout attended to	8 4 9 4 10 3 Drumps Didelights & Sovkout
II 8		10 3 8% h h h c
12 8	50 Dazo ante	11 3 8/2 m ~ m 8 12 4 big Days ant
	t. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
/r 45 or & 152 167 163 4	0,01 40,098 00 2,150 37272	186.348 140 112 83 35-16 35-17 5°, 1: 43 3317 W
H. K. ½ K. Courses. Winds, Leeway.	TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 5 day of June 1892	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. J. REMARKS. 7 day of Jame 1882
A.M. I 8 ME/2/Y MW		A.M. 1 5 64,9/19 1/16
3 8	modrate wind	fine I leasent, weather
4 8	from the 18 m	4 5 Sin wind from the solve
6 7	2 Pm stoed skysails	3 4 6 2 17
7 7	strong rund & squally	omploid in beleaning polisit - work.
8 7	7.30 Pon ploen Royals &	
10 8 NE NA	10. Port sell Royals	9 6 10 6 Royals. Dit topsail degalar
11 0		11 6 -nl-plansail fresh bleas
P.M. I 8 12 17 17		P.M. I 5 Elyr -nl-/ Slafsail fresh bleare
2 9		fatte part Set fore & main Ryal file topsall
4 9		Ryal file topsall
5 10		5 6 draping spanker Loos & gall
7 60	Sumps sidelights & Lookout	draping spanker door t gaff. and dead eges.
8 16		8 6
10 10		9 / 8/2m Dumps sidelightet bookout
11 60		III 7 allended too
12 10	61 Dazs Cell-	12 7 Bays Quit
Course. Distance. Diff. of Lat. Departure. Lat	by D.R. Lat. by Ob. Variation, Diff. of Lon. Lon in Lon by Ob.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
M 53 438 264 168 115-37	19 3708 0° 2°27 3400 W	120 07 8 121 35 126 . 34,42 84, 84 16° 2° 37 30 45. W
		, , , , , , , , , , , , , , , , , , , ,

From	Jan Francisco	towards Wew Book EMP. AIR. TEMP. WATER. BAROM. WEGMERS. 8th day of June 1892	From San francisco Cal towards New York
H. K. A.M. I 2 7 3 7 4 7 5 9 6 9 7 8 8 8	Elsh m	Fush brease from the Worth and blowdey weather 130 am stoud Royals the topsail one of Back in sile tours to the Eashward	3 4 4 4 5 3 Cearlm All Hanes Imploid
9 8 10 8 11 7 12 7 P.M. 1 7 2 3 8 4 8 5 6	M8ly &	degalaint pail of degalaint pail of degalant buil lo. main degalant ail strong wind 8. Pom bet reefed forg t main degalasts pails	III 3 morn Inidale pard letu Gafften avis
6 6 6 7 6 8 6 9 7 10 7 11 7 12 7 Course.	Ma, Mrw Distance. Diff. of Lat. Departure. Lat. b	Burner dedelegitst Look out Ottended for Sty Days Out	
M. K. A.M. I 2 3 4 5	½ K. Courses. Winds. Leeway. The	Fierh belane from the Remarks. It day of June 18 82 Anne double from the North Clowday coeather 6. am hh- rain which ramined until 12. he double he	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER BAROM. Segmanks. 1/2 day of June 18 92 A.M. I 3 bwh wh w Mr. & 2 4 3 5 4 5 6 COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER BAROM. Segmanks. 1/2 day of June 18 92 Call Hands Emploid Call Hands Emploid
7 8 8 9 6 10 6 11 6	south sme	8 30 Am some halled to the South, bele- all sail det	of 4 some some some some some some some some
P.M. I 6 7 3 7 4 7		Latte part wind so.	P.M. I So Why r 2 50 3 50 4 50
5 7 6 6 7 5 8 5 9 2 10 2 11 7	12 6 8 8.	Pumps sidelight & Lookout Etterredect too	5 & Arm. 6 6 7 6 8 7 8 7 8 7 10 8 11 8 12 9 3. Sy Days aut.
Course.		7 D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 20 30 04 \$ Ug 21 22 24 W	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 12 22 1 14 88 . 75 28/0 28/7 10 10 25; 28 62 14



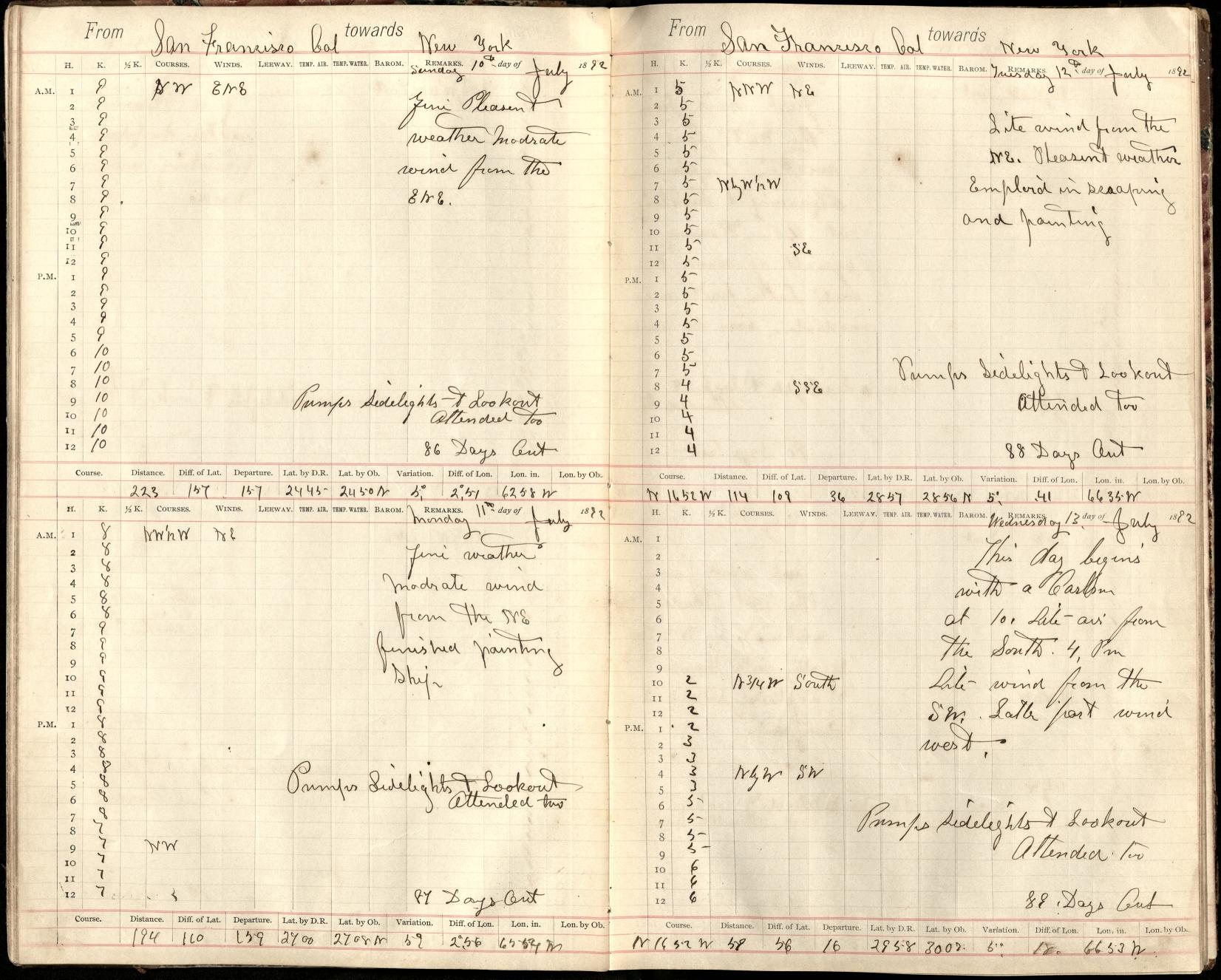




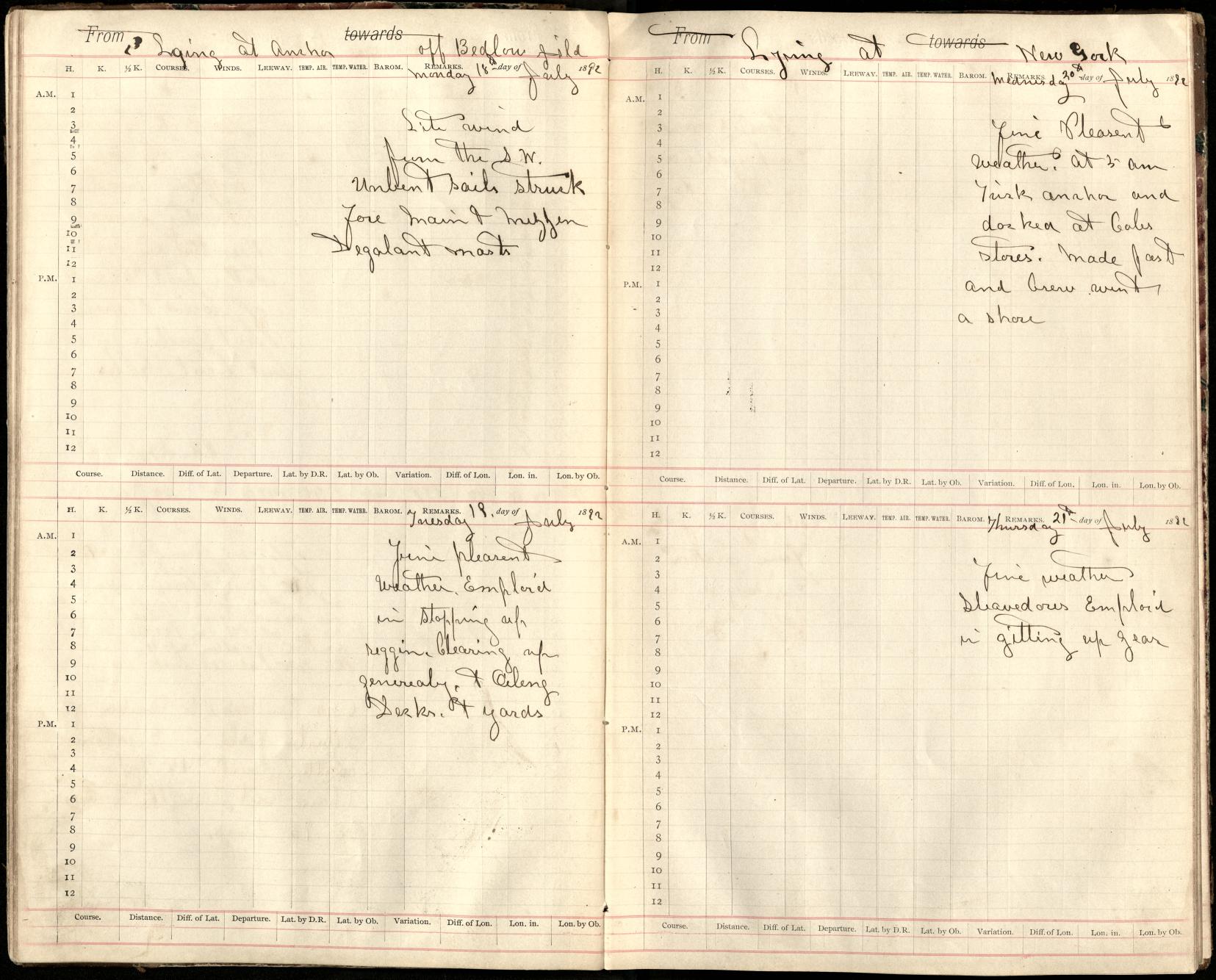
From San Francisco bal H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR.	towards New York EMP. WATER. BAROM. TREMARKS. 28 -day of Jame 182	From Jan Francis	
A.M. I 2 mm m m2.	Late air from the	A.M. I 4 Now 2 2 M 3 5	WAY. TEMP. AIR. TEMP. WATER. BAROM. Mursch of James 1882
4 L 5 2, 6 2	In E. which antumes Through The day	4 5 5 5 6 4 7 9	The 818 Emploid in painting head
9 IO II	Emploia, n' steaning hand-work.	8 4 9 4 10 4 11 4	gear Muddle & Latter hart The same
P.M. I 2 3 . Carlm 4		P.M. I 4 1817 W 1817 W 18 18 18 18 18 18 18 18 18 18 18 18 18	
5 6 7 8 Jum	hs Lidelights & Lookout- attended los	5 3 6 3 7 3 8 J	
9 L 10 2 11 2 12 2	1 Altended los	9 4 Shy 8 10 4 11 4 12 4	Tumps Dedelights allended for
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. I	At. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ol		Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 9, 36 8, 40 m /0; 27 37, 21 m
H. K. ½K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEM A.M. I 2 2 3 2 3 2	P. WATER. BAROM. MEMARKS. 28 day of June 189. Lie-au from	H. K. ½K. Courses. Winds. Lee A.M. I 4	TEMP. AIR. TEMP. WATER. BAROM. TREMARKS. A day of July 1882 Medrate wind
4 2 5 / 6 / 7 /	defferent Points- Emploice in sleaning	3 4 3 5 2 6 2	Georgaler de miller levene
8 / Phy 17 10 / 11 / 11 / 12 / 12 / 12 / 12 / 12 /	paint work.	7 2 8 3 9 3 10 2 Mym	derke
P.M. I	hart Lile-squalls of	P.M. I 2 2 3 3 3	Latter part wind from the & M &
4 / rrm 5 / Rmm 6 2, Rmm	he Dedi late-all	4 3 5 4 5 5	
7 2 8 2 9 3 17/2 8	hr Dedelights-Allended do	o b Whwlew	Pamps Sedelights Attended
Course. Distance. Diff. of Lat. Departure Lat by D.P. L.	75- Days ant	10 (11 (12 (22 Days aut
	t. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.		Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob.

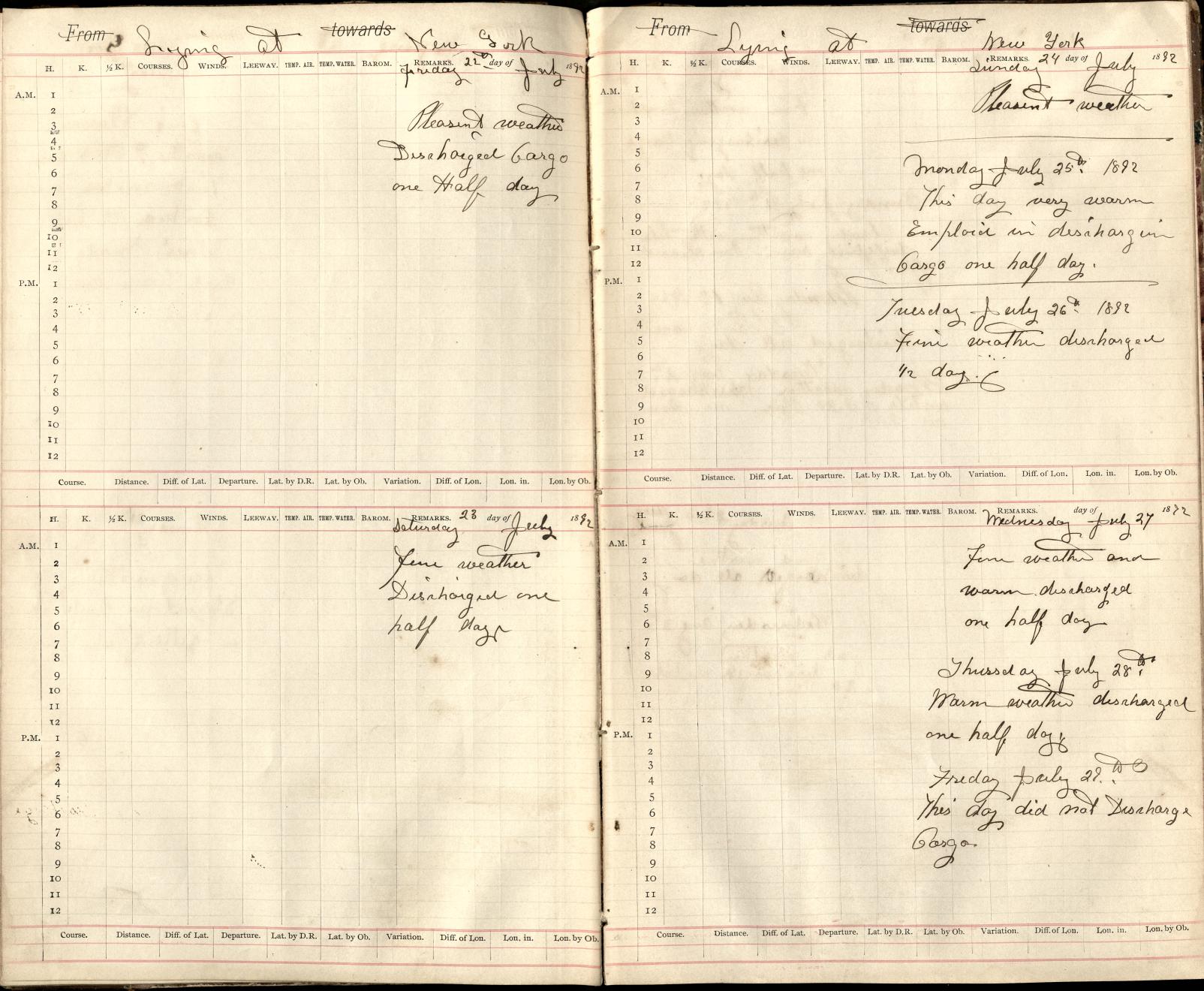
From San Francisco	towards New resork	From San Francisco	La lea towards Wew york
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. A.M. I. & WWWW EWE	TEMP, WATER. BAROM. S' REMARKS and day of July 1871 Modrate wind	H. K. ½K. COURSES. WINDS. LEEWAY A.M. I 2	Y. TEMP. AIR. TEMP. WATER. BAROM. M. REMARKS. 4 day of lily 1892
3 4 5 5 6 5 6	fram the Erre. Emploid sin framting	3 4 5 6	Indeate bear with
6 6 UMPUNEN 8 2 MUNU	non work	7 8 8 9	blowdy weather middle & Latte
10 4 11 6 NWW. W&	· Latte frant wind We.	10 11 12	part no ram
2		P.M. I 2 3 4 4 4 4 4	Emploid ni cleaning Vaint work,
6 7 7 8 7 9 7 10 7	for Didelights hookout Attended too	5 6 7 8 9 9 9	Compo Dedelights Allended
Course. Distance. Diff. of Lat. Departure. Lat. by D.R.	Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	10 X 11 X 12 X 12 X 12 X 12 X 12 X 12 X	40 Days ant
4 33 17 146 151 18 152P	244 W 10: 1:21 3806 W	75615W (11 85- 142)	at. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by Ob.
H. K. ½K. COURSES. WINDS. LEEWAY. TEMP. AIR. TH	modrale wind	H. K. ½K. COURSES. WINDS. LEEWAY A.M. I 2	7. TEMP, AIR. TEMP, WATER. BAROM. TREMARKS. 3 day of July 1882
	Jun the NE, with Lite rain Aqualle	3 4 5	modrate numed from
7 8 6 9	Through the day	6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	Walter at 11, am
10 6 11 12 P.M. 1		10 7 11 7 12 Y	middle part the same
2 3 4 4 5 5		2 8 3 8 4 8 5 8	Latter part Painting Ship.
6 7 8 9	mps didelights attended too	6 × Y 7 8 %	Pamps Dedelights albended
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	79 Days Out	11 8 NMM	81 Days Cont
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. I	at. by Ob. Variation, Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure. La	at. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.

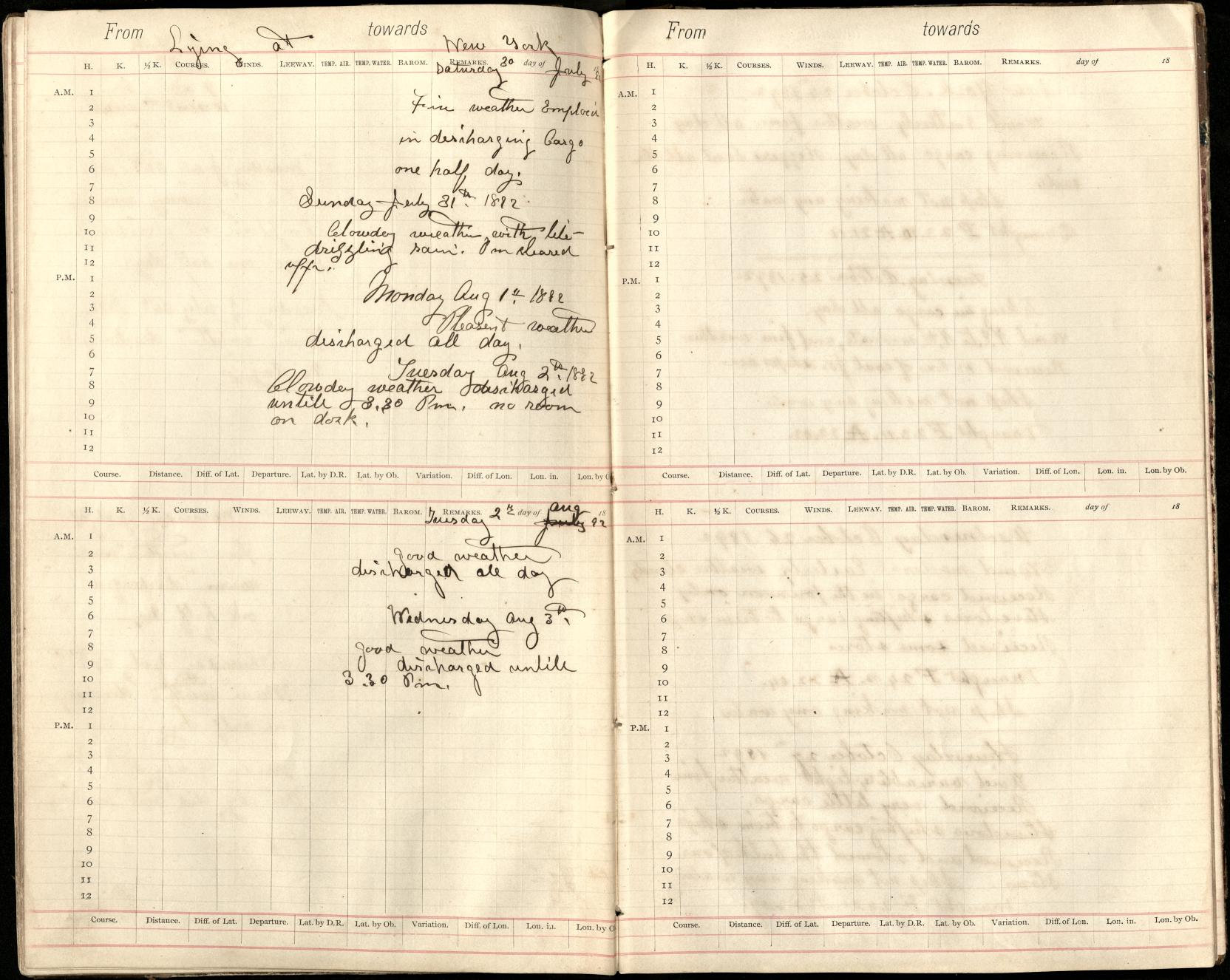
From Surface Courses. Winds. Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 8 - day of July 1892. From Jan Francisco bal towards New York Widnesday day of Any 1892 thes wylly 9 2 my n'12 w. East fresh brease frem fine Pharent the East, Coloredy weather Employed in weather Sainting hainting around Shy Lerks Comps Dedelights allended to Tumps dedelights of Lookant attended too 92 Days Out 84 Days Cent N 64 41, W 216 82 190 1842 1829 10: 3:29 4931 W 2650 2051 h 8, 3,44 5656 W H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. 4/REMARKS. 1892 H. K. 1/2 K. Courses. Winds. Leeway. Temp. AIR. TEMP. WATER. BAROM. Deliveral day of July 1892 my hy East fresh brease from fine Measent The East, blowder weather Emplored in Painting Leseraping Wather Painling Trimps Lichelights & Leokont
Attended Too mhn Trumps Dedelights & Lovkout attended too 88 Day Outo Is Days Coret Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. M 6730 W 228 87 221 1956 1 1835 10° 3°41 5312 W 213 166 184 2211,22 Br J. 3:11.6009m



From San Francis	ro la towards New york	From Jan Francisco Cal towards Win york
A.M. I 9 Whwhw West	Feesh wind from	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. Softwarks. 16 day of July 1882, A.M. I 6 North Nrw
2 7 3 9 4 8	the mest fine	1 Modrale roind
5 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	weather Emploid n'	5 6 M/28 From the W/rm
8 9	bleaning & Sainting	baffling soeather 8 6 9 6 Forth Olowder several
	squall of wind &	Ussellet in Dight
P.M. I 9 (2) 3 9 (2)	ram' Latter part more	P.M. I & Nrw Latter hait squall 3 9 of wind & rain
4 5 12 5 9 6 9	modrate, saw tor Visrells	5 % Ihut anchors in Pheros
7 9 8 8 9 8 18 h	Pumps dedeleght. I der kont Attendice too	and bent bables,
IO Y	The state of the s	10 8 11 7
Course. Distance. Diff. of Lat. Departure		Distance, Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lou. Lou. in: Lou. by Ob.
M /4 04 W 212 202 M 58 M H. K. 1/2 K. COURSES. WINDS. LE	EWAY. TEMP. AIR. TEMP. WATER. BAROM. PREMARKS. 13 day of 1883	
A.M. I & BIRW Wint	Lush wind fum	A.M. I Lile ger, from the NING.
4 ? 5 ?	the West allowder	3 at 815- taked Ohip to the Will 8 fine pleasent-weather 5 at 8 am turk turk hilat-
8 8	weather. 8, am to 4. 7m	on board from Gilog Boat To 6. at 11. am lasked ship to weather squalley at 4. lasked for
9 8 mywnw	Squally with Thunder	the 12 Mal-12 truck ling 18001
P.M. I 5	heavy rain	P.M. I Came to winhor off
3 5° 4 5° 5 5° My W		Liberty Ital in & Tathon avatter. Twith 45 flathon
6 5 7 7 7 7	Pamps Didelights & Sookont. Attended too	6. Chain out, afte a Vorge
8 2^ 9 7 10 7		8 9 9 10 P3 Days,
11 7 7 7	91 Days ant	10 11 12
	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 3610 35137811 8	b. Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob.







From towards	From towards
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of
A.M. I New York. October 24 1892	A.M. I New York. Friday October 28 1892
Wind Northerly. weather fine all day	3 "Eind S.W. moderate, weather fine
5 Receiving cargo all day. Riggers bent-all the	Received no cargo to-day.
	Te Had one Tanks from water boat
8 Ship not making any water	and took on board some stores
9 10 Draught-F 23.10.A 21.11	10 11-H121 02 A 2207
	Draught F 24.02 A 22.07
P.M. I Juesolay. October 25-1892	P.M. I 2 1-to-day October 29 1892
Jaking en eargo all day.	Laterday, October 29.1892
5 Wind N.E. to N.W. moderate, and fine weather	4 5 Wind N. W. fresk and squally
7 Received +5-tons of coal for ships use.	Received no cargo today
Ship not making any water	got up steam and washed ships off.
10 Draught F 23.11. A 22.03.	ship not making any water
12	12
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by O	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I Wednesday October 26 1892	A.M. I Sunday October 30 1892
2 Wind moderate Easterly weather cloudy	
Received cargo in the foremoon only	5
6 Stevedores & hifting cargo to trem ship	6
8 Neceived some stores	8
Draught F 24.08. At 22.04.	monday October 31 1892
Ship not making any water	11 Wind Westerly, fresh, weather fine
P.M. 1	P.M. I Offernoon recommend cares and
Thursday October 27 1892	Ofternoon receiving cargo and tremming whip.
Wind variable of light weather fine	5
Received very title cary.	6 Draught F 23.11 A 22.11
Iterectores shifting cargo to brim ship Brised and stowed the bulk of our	8 9
Received and stowed the bulk of our Stores. Ship not making any water	IO
12 Oraught F 24.01. A 22.07.	11 12
Course. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	
in joined ship	

From towards	From New York towards Lan Francisco
A.M. I New York Tuesday November 1 1892 Wind Northerly, moderate, weatherfine Receiving cargo all day. Ships not making any water Draught F' 24.00 A 23.10 Wind ESE fresh, weather overeal- Kinished loading at 430. P.M.	H. K. 46 COURSES. WINDS. LEEWAY. TENP. AIR. TENP. WATER BAROM. REMARKS. day of 18 92 A.M. I Wind N. W. strong, weather clear, Saturday November 5 1892 3 Got under weigh at 7 am and anchored at 8 the 5 tug not being able to handle ships, 9 a m got another 6 tug to help and hove up. set lower fore and main 8 topsails and jib. At Noon Dandy thook light house 10 bearing west about 2/2 miles from which I lake 11 my departure. P.M. 1 Ship not making any water 2 This day contains 12 housas to commence 4 Sea log. 6
Jook balance of our stores on board Draught 24.01 Ft. 2406 % A II January Marking any water Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ol H. K. 1/2 K. Courses. Winds. Leeway. 1EMP. AIR. TEMP. WATER. BAROM. REMARKS. day of A.M. I Horraday November 3 rd 1892	H. K. ½K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
Commentes with rain wind boutherly forithalf weather thick. Latter part brind Avariable weather overcast: 6 am Crew came on board, unmoored 8 am made fast again to wharf and sent the men on shore, the weather being too foggy. P.M. I Friday November 4 18 92.	A.M. I 10 ESE NW Sunday Nov 6 1892 2 10 3 10 Alkate first half A 10 A 20 A 20
Journals and thick rainy weaks 4 until 6 Pm when it cleared off. 5 6 a m crew came on board cast off 6 and towed to anchorage off. Italian Island 8 anchored in seven fathous water 35 fathors 9 fehain to water. At night 2 men and an 10 officer on water. Ship not making any water 12 all ready for sea. Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by O	all sail set. 3 9 4 9 4 9 5 9 6 9 7 9 10 5 11 5 12 4

From New York	towards San Francisco	From New York	towards Law Francisco
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. I A.M. I 5" 2 6 3 44 4 44 5 47 6 3 10 4 11 3 12 4 P.M. I 3 2 4 3 4 4 4 5 5 6 5' 7 8 8 9 10 5 11 5'	Monday Nov 7 1892. Throughout this day, light winds and clear weather All sail set Employeel getting on chaping gear. This not making any water I days out 2 days out	H. K. %K. COURSES. WINDS. LEEWAY A.M. I 10	Lectnes day November 9 1892 Alrong Southerly woulds all this day. Moderating latter part. carraging reefed top gallant-sails part-oftimes Ship not making any water faw 2 refsels bound East Too for off to speak & (steamer) 4 days out-
3 9 4 9 5 9 6 9 7 9 8 10 9 10 10 10 11 11 12 10		Course. Distance. Diff. of Lat. Departure. I 18 7 2 12.7 2467 H. K. 1/2 K. Courses. Winds. Leewa A.M. I 9 2 9 3 (0) 4 9 5 (0) 5 (0) 6 (0) 7 (0) 8 (0) 9 9 10 9 11 8	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 38.00 37.57 19. W 5-20 57.257 V. THAP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 Thursday November 10" 1897. Commences with Strong winds gradually moderating and haceling. Ends moderating and haceling. Ends moderate, wealther fine throughout— Call bail set— Employed putting on chafing plan. Third mate laid up. No observation at Noon.
3 4 10 5 1/ 6 10 7 10 8 10 9 10 10 19 11 10 12 10 Course, Distance, Diff. of Lat. Departure, Lat. by D.R Part 2-24 00 2.244 39.13	3 days out	3 8 6 5 6 6 6 7 8 8 8 9 9 7 10 11 6 12 5 Course. Distance. Diff. of Lat. Departure.	Lat. by D.R., Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 38.08 OV. 22W 4.09 53,25

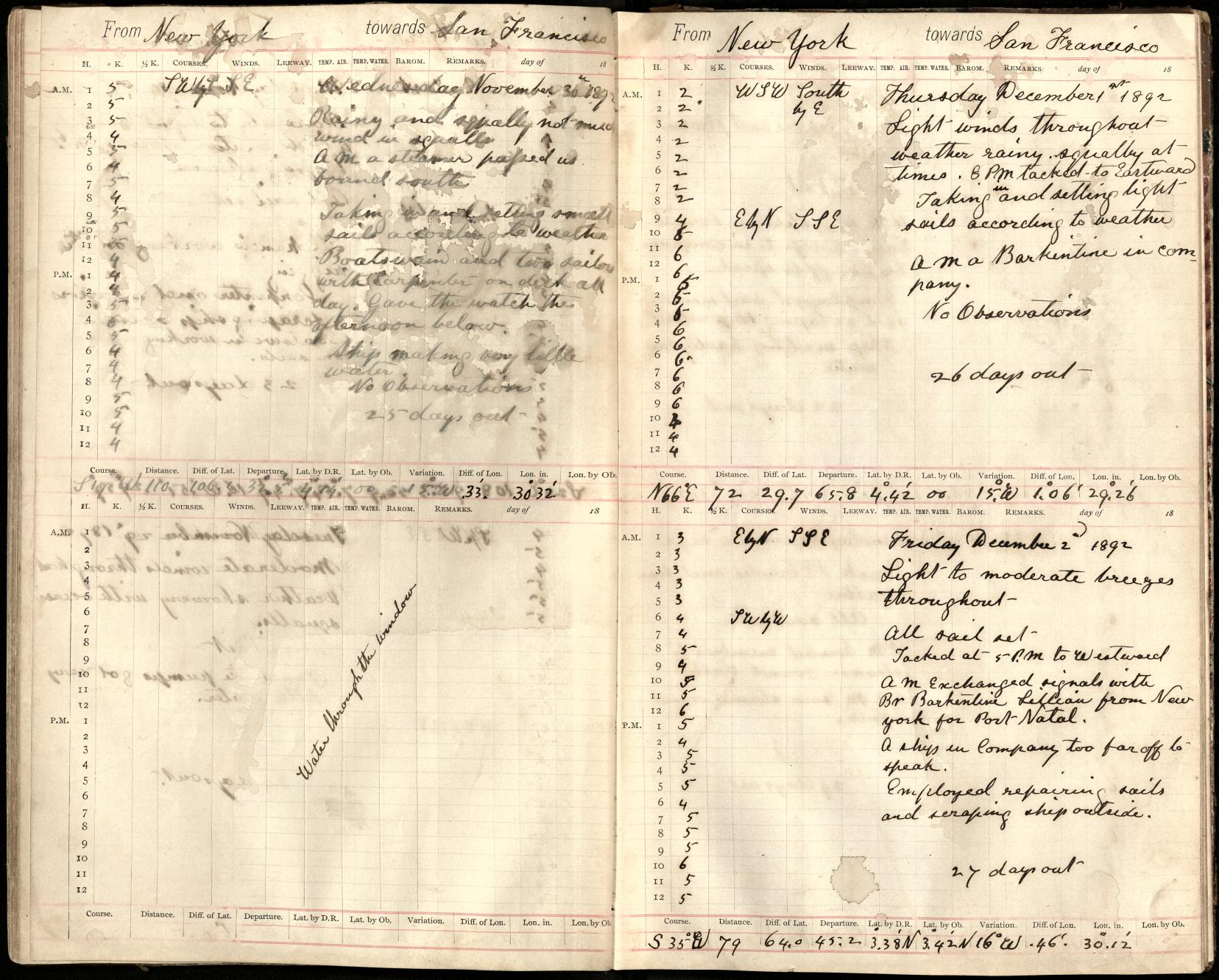
From New York towards Lan Francisco	From Show York towards Lan Francisco
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I 5 SEly E SSW Frickay November 11 18 Gr. Wind hauled to ISW shortly after Moon braced up on starboard tack	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I 10 Slby S/2 S. W.S.W. Lunday November 13 1892
4	3 11 4 11 5 10 Moderate latter part
5 9 6 10 weather throughout 7 10 8 10 All sail set	Moderate latter part 6 10 10 Weather overcast Mirroughout 8 9
Employed on chaping gear	9 10 10 9 11 10 All sail set- Ship not making any water
P.M. I 9 2 9 Wind in the land were	P.M. I 8 No Oberstations
Murd mate laid up 5 9 6 9 7 9	Third mate land up 5 5- 6 5- 7 5-
7 9 8 9 9 9	7 5- 8 6 Shepe West
10 9 11 9 12 9	10 6 11 6 12 6
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variation. Diff. of Lon. Lon. in. Lon. by Ob. Pgg & Z13 41.6 2.08.9 37.26 37.27 2.1 W 4.22 49.03 H. K. V.K. Courses. Winds. Leeway. Temp. AIR, Temp. WATER, BAROM. REMARKS. day of 18	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 1498 191 1268 144.2 33.25 00 22.2 254 4142 H K VK COURSES WINDS LEWELLY THE ALL THE PROPERTY DEPARTMENT
A.M. I 10 SE/28 S.W. Laturday November 12 1892 2 10 3 10 4 11	A.M. I 5- Sly 2/2 & WSW Monday November 14" 1892.
5 10 Shyrails furled part of the time	Moderale winds most-of dag, latter part light weather overeast, clearing at & a m
7 11 Employed overhauling stores 8 10 9 11	obeceau, clearing at & a m. 7 5 - 8 5 - 0 6
No water in pump well 11 11 12 16 No Observations, Cloudy	10 5- 11 5- 12 5-
P.M. I !! 2 !! 3 !! Third mate laid up	P.M. I 57 2 6 3 57
5 9 6 10 7 clays out	4 4 5 5 5 6 4 9 days out
	7 4 8 4 9 3
11 10 10	10 3 11 3 12 3
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in., Lon. by Ob. 9742 245 1/5.5-216.1 3531 00 22W 4.27 46.36	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in., Lon. by Ob. 7398 116 89.7 73.6 31.53 31.53 22 22 20 1.27 40.15

From New York	towards San Francisco	From New York	towards San Francisco
H. K. ½K. COURSES. WINDS. LEEWAY A.M. I 2 3 4 5 6	Fuesday November 15-1892. Throughout this day very light ours and calins, like the looks like rain.	A.M. I 6 Ple Ely N 2 6 6 6 6	Thursday November 17 1892 Moderate trades throughout All sail set a ship in company.
7 8 9 1 FJE FW	All soul set. 3 vepels in sight all day too far off to speak Hove up starboard cable and	7 8 9 7 10 11 7	Employed cleaning and tarring chain cable.
P.M. 1 2 South West - 2 1 3 1	Tried the pumps got wery little water out of her third mate laid up	P.M. I 6	Ship not making any water Wird mate laid up
4 1	10 days out	5 7 6 6 7 7 8 7	12 days out
Course Distance Diff of Let Departure L	at by D.P. Let by Ob. Veriction Diff of Let. Let it at	9 7 10 11 7 12 7 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1	
9462 24 17.7 16.5 3 H. K. 1/2 K. Courses. Winds. Leeway	at. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. L. 41 31.47 19 60 19 39.58 7. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	Course. Distance. Diff. of Lat. Departure. 9312 157 1347 80.7 H. K. ½K. COURSES. WINDS. LEE	Lat. by D.R. Lat. by Ob. Variation. Diff, of Lon. Lon. in. Lon. by Ob. 28.29 28.34 19.6 1.32 37.43
A.M. I 2 SE Baffling 2 2 3 2	Wednesday November 16 1892 From Noon to midnight light	A.M. I 7 Abj & ElyN	Friday November 18° 1892 Moderate trades and pleasay
4 Z 5 1 F.FE 6 1 7 2	from midnight to Noon moderale Easterly winds that look like trade	4 7 5 6 7	weather latter end squally tooking. breeze fresh
8 2 3/4 W 10 2 11 2 11 2 11 C S/W	PM a ship un company a m spoke Norwegian Bk	8 7 9 7 10 8	Employed cleaning chain cable.
P.M. I 5- 2 6 3 7	Maria Louise bound North and saw another Bk bound	P.M. 1 8	Third mate lack up
5 5 South Ely 9 6 4 7 3	Employed cleaning and tarring chain cable.	4 8 5 8 6 8	13 days out
8 3 9 3 10 3 11 4 12 9	Third mate laid up	7 8 9 9 9 10 8 11 8 12 9	
Course. Distance. Diff. of Lat. Departure. Lat. P298-73 63.6 3570 3	at. by D.R. Lat. by Ob., Variation. Diff. of Lon. Lon. in. Lon. by Ob. 30.43 30.43 20 60 41 39 15	Course. Distance. Diff. of Lat. Departure. 1298 180 154.4 92.5	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lone in. Lon. by Ob. 26,00 26,03 18.60 1.44 36.59

Fro	m New yor	k towards &	San Francisco	Froi	m New York	towards	Lan Francisco
Н. К.	½ K. Courses. Winds.	LEEWAY. TEMP. AIR. TEMP. WATER. BAROM.	REMARKS. day of 18	Н. К.	½ K. COURSES WINDS.	LEEWAY. TEMP. AIR. TEMP. WATER. BAROM.	REMARKS. day of 18
А.М. 1 3	ISE Baff	ling Laturday	November 19 1892	A.M. I 2,	Sby E Blest	Sunday No	rvember 20° 1892
3 3	from	Winds lich	N' and balkling	2 Z, 3 Z			
4 3	ffy) Soul	theward with occase	onal equals some	4 2		weather the	winds and fine
6 2	Jow of las	rain.	N'and baffling onal squalls some	5 Z 6 Z			
7 2 8 2		Elewing up	h and selling small	7 2 8 2		all sail	sel-
9 2	Salya .	tails accor	ding to weather.	9 3		a ships in	Company and 1 Bk
IO II				10 4		bound Nor	Company and 1 Bk
PM 7 /	WSW	little w	ater.	12 5		Third me	rate land up
2 2	$\omega \circ \omega$	1 Ships in	co 9, 2 bles bound North	P.M. I 3	R. India an Name		
3 / 4 2		all too ba	co of 2 bks bound North	3 4		ind	*
5 3	448			5 4		15 days	ou .
7 3		14 ac	ays out	6 4			
8 4				8 4	114, Ny		
10 3				10 5	Style NW		
12 3				11 5-			
Course.	Distance. Diff. of Lat. Dep	parture. Lat. by D.R. Lat. by Ob. Variat	ion. Diff. of Lon. Lon. in. Lon. by Ob.	Course.	Distance. Diff. of Lat. Depa	urture. Lat by D.R. Lat by Ob. Way	rightion District Land
739E	56 43.8 39	5.1 25.19 25.21 18.	W .39. 36.20	8268	85 76.4 36	.8 24.05 24.02 12	riation. Diff. of Lon. Lon. in. Lon. by Ob. 35.39
	½ K. Courses. Winds.	LEEWAY. TEMP. AIR. TEMP. WATER. BAROM.	REMARKS. day of 18	н. к.	½ K. Courses. Winds.	LEEWAY. TEMP. AIR. TEMP. WATER. BAROM.	REMARKS. day of 18
A.M. I		(4) (3) (3)		A.M. I 6:	South West	wy Monday 1	ovember 21° 1892
3				3 9	Land Carlotte Assembly	First half	fresh breezes and
5				4 7		cloudy wea	thee Latter part
6				6 8		moderate	and equally.
8				8 9		taking in	and setting small
10				9 19		tails accord	ding to weather
11				11 9			company too far
P.M. I				P.M. 1 6		off to speak	A STATE OF THE STA
3				2 6		Frenched	cleaning chain
4	A Company of the Comp			4 5		Cable. There	d mate laid up
6				5 /9		16 da	poul-
7 8				7 8			
9				9 5			
II				10 6			
12				12 6			
Course.	Distance. Diff. of Lat. Depa	arture. Lat. by D.R. Lat. by Ob. Variati	on. Diff. of Lon. Lon. in. Lon. by Ob.	Course.	Distance. Diff. of Lat. Dep	arture. Lat. by D.R. Lat. by Ob. Van	riation. Diff. of Lon. Lon. in. Lon. by Ob.
	- Maria Company	treature -	Alexandr of	J182	161 154.1 46	7 21.28 21.24 1	8.60.50. 34.49

1 Sept of the supplemental and calms and calms and calms and calms and calms are all developed as the such as the supplemental and atting higher to be from the developed and such as the control of the weather the calms are all the control of the weather than a calms and calms are all the control of the weather the calms are all the control of the weather than a calms are all the control of the weather than a calms are all the control of the calms are and calms with a calms are all the control of the calms are and calms with a calms are all the control of the calms are and calms with a calms are all the control of the calms are and calms with a calms are all the control of the calms are and calms with a calms are and calms are all the control of the calms are and calms are all the calms are and calms are all the calms are according to weather a calms are all the calms are and calms are and the calms are all the calms	From New York	towards dan Francisco	From New York	towards Lan Francises
H. K. 5K COURSE. WINDS. LETTER PLANES. REMARKS. day of 18 H. K. 5K COURSES. WINDS. LETTER RANCH. REMARKS. day of 18 H. K. 5K COURSES. WINDS. WINDS. LETTER RANCH. REMARKS. day of 18 H. K. 5K COURSES. WINDS. WINDS. LETTER RANCH. REMARKS. day of 18 H. K. 5K COURSES. WINDS. WINDS. LETTER RANCH. REMARKS. day of 18 H. K. 5K COURSES. WINDS. LETTER RANCH. REMARKS. day of 18 H. K. 5K COURSES. WINDS. WINDS. LETTER RANCH. REMARKS. day of 18 H. K. 5K COURSES. WINDS. LETTER RANCH. REMARKS. day of 18 H. K. 5K COURSES. WINDS. LETTER RANCH. REMARKS. day of 18 H. K. 5K COURSES. WINDS. LETTER RANCH. REMARKS. day of 18 H. K. 5K COURSES. WINDS. LETTER RANCH. REMARKS. day of 18 H. K. 5K COURSES. WINDS. LETTER RANCH. REMARKS	3 4 4 3 5 2 6 1 7 1 8 0 Palm 9 0 10 1 11 2 12 2 P.M. I 2 2 3 3 4	Light winds and calms with occasional squalls and a little rain alympy na setting to kincf in and setting light sails according to the weather all hands Employed working in the rigging and retting up head gear. Third mate laid up	3 2 4 3 5 4 5 6 6 7	Day ends squally. Third mate laid up
7 3 2 W/49 Soulte 18 daysoul 7 8 9 10 10 3 11 2 12 3 10 9 10 10 9 11 9 12 9 12 9 12 9 12 9 1	H. K. 4K. COURSES. WINDS. LEEWAY. A.M. I 2	TEMP. MATER. BAROM. REMARKS. day of 18 Wadarday Nov 23 1892. Theroughout This day very light airs and calms with accasional heavy squalls. Am heavy rain. Taking in and making said according to weather. wearing whip when ever necessary. A lumpy sea running in all alcrection. No O bservations Third mate lacel up 18 days out	H. K. ½K. COURSES. WINDS. LEEWA A.M. I 78 3 7 8 8 7 9 7 9	Tricky November 25-1892 Tricky November 25-1892 Thoughty. First and latter parts All sail set - Middle part- taking in and making half according to weather. All hands at work aloft- on the rigging. Third mate laid up 20 days out

From New york towards San Francisco	From New York towards Lan Francisco
H. K. 1/2 K. Courses. (Winds. Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I 9 Syll East Saturday November 26, 1892	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
	2 4
3 9 4 8 5 8 Weather Throughout	Moderate to light Easterly winds weather cloudy with
6 7 all sael set	6 4 passing showers.
Ship making hardly any any water. Ship	9 5 South 248 Cell sail set-
all hands employed	all hands working on the
P.M. I 7 working on the rigging	P.M. I 4
There mate lack up	l'arpenter and 2 aculors 4 4 deraping ship outside
5 18 6 8 7 8	deraping ship outside 5 5 6 5 7 40 deraping ship outside Boalswain working all day on sails.
	2 3 days out -
10 7 11 7	10 4 11 5
Course Distance Diff of Lat. Departure Lat by D.R. Lat by Ob. Variation Diff of Lan. Lan in Law by Ob.	12 4
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 1248 187 170.8 76.1 11.21 11.25 16.80 1.18 32.07 H. K. Lat. by D.R. Let Way TRUE RAPON PRINCE AND ALL OF THE PRINCE AND ALL OF	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob.
A.M. I 7 Sleglis. East Lunday November 27 1892	A.M. I 4 Spll Tuesday November 29 1892
moderale brades and fine	3 4 moderate winds throughout
5 2 wealker.	beather showery with occasion
All sail set- 8 % Whire mate laid up	75- Aqualls.
o 6	8 5- 9 4 10 5- 10 5-
11 6	Tried the pumps got very little water.
P.M. I 2 8	P.M. 1 5 - SW48/28
4 8 5 / 22 days out	3 5 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
6 7 7 7	5 5- 6 5- 7 6
	9 4
10 T T T T T T T T T T T T T T T T T T T	10 4 11 4
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure Lat by D.R. Let by Ob. West the Diff. CV.
Pare E Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 143 1213 75.8 9.24 9.29 19.20 1.17 30.50	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. Poulle 114 114 00 3.55 6.00 16 0 00. 29.50



From New York towards Lan Francisco	From New York towards fan Francisco
H. K. 1/2 K. Courses. Winds. Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of A.M. 1 6 SEly S Saturday (December 3 1/892 Brisk tracles and pleasant- weather weather	H. K. %K. Courses. Winds. Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I & Stelly Sh S. S. Monolay December 5-1892 3 6 Brisk L. E. Tracles and pleasant weather. 4 7 weather.
All saul sel' All sa	Cell soil set 8 7 Employed repairing soils 10 8 and teraping ship outside 11 12 6 P.M. 1 7 2 8 3 7 Description of the soil set of the soil set of the sering by compas E. J. E. about 20 miles
Employed sail mending and Le raping this outside bliss making hardly any water. 2 8 clays out-	2 8 7 by compas E. G. E. about 20 miles 8 . 4 8 . 5 7
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by 92740 168 149.7 76.3 1.13 N. (N. 16.16.16.16.16.16.16.16.16.16.16.16.16.1	11. IX. 72 IX. COURSES. WINDS. HERVAY. IEMF. MILE. DATEM. REMARKS. May 0) 18
Brick I tracles and fine weather 6 6 7 Call sail sel-	Fresh trades and fine weather The sail sel- A m saw Bk bound North
PM horsted numbers to Steamer bound North A M saw steame bound P.M. 1 8 2 7 4 7	and spoke Br. Ships Lumberman, Lap. From Mobile for Algoa Bay 10 8 11 9 12 8 147 days out: Thisled upper for Loprail. 2 9 2 mployed same as yesterday
5 6 7 7 8 6 9 7 10 6 11 7 12 7	5 7 6 7 7 7 8 7 9 7 10 7 11 7
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by (165 157.9 47.9 1.27.5 1.21.5 16.6) 48. 32.17	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. Y14W 178 1727 43.1 6.45 6.39 14. W . 44, 33,33

From New	w- york towards	San Francisco	From Ne	w York	towards Lan Francisco
A.M. I 6 & &	OURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. OSW 948 Wednesdo	REMARKS. day of 1892 A	H. K. ½ K.	Courses. Winds. Leeway	F. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 Frickay December 9 1892
3 6 4 5 5 4	Moderate weather. To	trades and fine ched ship at 11 BM	2 6 3 6 4 6		Moderate hauling to the
6 5 7 7 8 8	all and a	the state of the s	5 6 6 6 7 6	150	N.E. weather fine throughout all sail set-
Ir 6			9 77	NE	this making hardly any water try the pumps daily
P.M. 1 7 2	SE and scrap	hing ship outside	12 7 P.M. 1 7		Employed repairing sails and scraping ship outside
3 6 4 6 5 5			3 5 4 6 5 7		34 days out
7 6 8 6 6	, Sw 3 2 da	rys out-	6 6 7 6 8 7		
10 6 11 6 12 6			9 6 10 5 11 6		
Course. Distance.	Diff. of Lat. Departure. Lat. by D.R., Lat. by Ob. Variate 49.7 26.4 7.21 7.20 13 RSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BARON	tion. Diff. of Lon. Lon. in. Lon. by (Course. Distar	oce. Diff. of Lat. Departure. I	Lon. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 12.45 12.42 136 23. 35.06
	165/2S. SEGE Thursday	REMARKS. aay of	H. K. ½ K.	COURSES. , WINDS. LEEWA	Jaturday (December 10 1892
3 /2 4 /8 5 /8		Les weather fine	3 5	ALL TO LAKE THE ALL AND ALL AN	moderate NE winds and fine weather all Morough
6 8 7 8 8 %	Om spoke	Br Ship Norsefees for Spence gul	5 6 6 7 5		all sail set
9 18	in company.	a m housted	9 6		Vorth hoisted numbers saw z sleamers bound south
P.M. I 8	bound Nor	Leverdesk Bk	P.M. 1 6		
5 8 6 7			3 6 4 53 5 5		35-days out-
7 18 8 8 9 8	33 days	, out-	6 6 7 6 8 5		
10 3			9 6 10 5 11 6		
Course. Distance.	Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variatio	on. Diff. of Lon. Lon. in. Lon. by 0	Course. Dista	nce. Diff. of Lat. Departure.	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.

From New york	towards Lan Francisco	From New York towards San Francisco	
H. K. 1/2 K. COURSES, WINDS. LEFT A.M. 1 2 3 4 5	WAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of Sunday December 11" 1892 Fresh NE winds and fine weather	H. K. 42K. Courses. Winds. Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of A.M. I & Wy & South Tuesday December 13 1892 3 & Moderate winds and rain 4 & Washington throughout.	18
6 6 7 8 9 9 10 8 10 8 10 10 10 10 10 10 10 10 10 10 10 10 10	All sail set- A m spoke Italian Barkenhin bound North,	all small sails fast 8 6 9 6 0 m saw a ship bound to	
P.M. I 7		No Observations P.M. I 57 2 4 3 8 days out	
3 8 4 8 5 7 6 7 7 8	36 days out	3 4 5 5 6 5 7 8 7 8 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8	
8 7 9 7 10 7 11 7 12 7		8 5 9 6 10 6 11 6	
Course. Distance. Diff. of Lat. Departure. 93 W 178 177.8 8.7 H. K. 1/K. Courses. Winds. Leew	Lat. by D.R., Lat. by Ob., Variation. Diff. of Lon. Lon. in. Lon. by Od., 17.5% 12. W. 9. 35-24 AV. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. 467 W 140 53.6 129.3 20.5-2.00, 11 W 217 37.04 H. K. ½K. Courses. Winds. Leeway. Temp. air. Temp. water. Barom. Remarks.	ı. by Ob,
A.M. I 7 South NNW. 2 7 3 7 4 7 5 7 6 7	Monday December 12" 1892 Commences with brisk breezes and fine weather all said set	A.M. I 5- SWYWpW. Hy? Wednesdag Occember 14 18 3 5 4 4 Latter part-light-winds and clear weather All sail set-	1-
7 7 8 7 9 2 10 2 11 7	2 a m wind haseled into the bouthward and breezed up with rain. fulled all light sails q a m tacked to the Westword	7 4 8 4 9 4 10 4	
P.M. 1 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	No Obsvervations	11 4 12 4 P.M. 1 4 2 4 3 4 4 4	
5 7 7 8 7 9 7 9 7 9 7 8 7 TO	37 days out	5 4 6 3 7 3 8 4 9 4	
Course. Distance. Diff. of Lat. Departure.	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in Lon by Co.	IO 57 II 4 I2 4 Distance Distance Diff of the Development of the Deve	
820 E 131 1229 45-0	300.00	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. jn., Lor. 7573 W 98 58.4 78.7 22.11 22.03 9.W. 1.24 38.28	n, by Ob.

From New York	towards Lan Francisco	From New York	towards San Francisco
H. K. 1/2 K. COURSES. WINDS. LEEW A.M. I 4 PWGW SPE	TAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 Herroday (December 15-1892.	H. K. ½K. COURSES. WINDS. LEEV A.M. I Z. SW Coar	WAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Winds moderate, weather fine Throughout	2 (3 0 4)	Light variable winds and
5 4 6 4 7 4	all sail set	5 (6 0 7 (calms throughout.
8 5 9 5 10 6	Employed repairing sails	8 2	all sail set
P.M. I 6	Employed repairing sails setting up rigging. Im shifted Foresail.	IO 2_ II / I2 /	Employed setting up regging & repairling sails.
2 3 6 4 5	40 days out	2 0 3 0 4 /	42 days out
5 5- 6 8 7 5-		5 / 6 2 7 /	
8 4 9 5 10 4		8 (
11 3 6		11 / 12 /	
Course. Distance. Diff. of Lat. Departure. I. System 14 76.6 84.5 2 H. K. ½K. Courses. Winds. Leeway	Lon. by O.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by C. 2. 2. 2. 16 9 W 1.32. 39.50 Y. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of	Course. Distance. Diff. of Lat. Departure. 936 W 24 20.1 13.3 H. K. K. COURSES WINDS LEE	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 23.579 23.573 8 W .14. 40.26
A.M. 1 5 SW SELYS.	Friday December 16 1892	A.M. I 2 SW/W Var	dunday. December 18 1892
3 3 4 2 5 1	Very light ours and colmo all this day.	3 Z 4 Z 5 Z	Light-variable winds all day
6 1 7 0 Palm 8 0	Employed setting up rigging and re pairing sails and sociaping outside.	6 3 7 Z	PM raw Brig bound North
9 6	a ma Bark in sight bours	9 2 10 3	
P.M. I / 2 /	North.	11 2 12 2 P.M. 1 3	43 days out
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	41 days out.	3 / 4 2 2	
6 / 2 / 8 /		6 2 7 2	
9 / 10 / 2		9 1 10 3	
Course, Distance. Diff. of Lat. Departure. Le	at. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by 0	11 3 12 2 Course. Distance. Diff. of Lat. Departure	Lat by D.D. Let b. Ot. W. St. Dim Co.
942 W 34 27.3 20.3 2	23.43 2337 8.W22 4012		Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in., Lon. by Ob. 2431 2434 8 6 35, 41,01

From New York towards San Francisco	From New York towards San Ferancisco
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of A.M. I 3 SW/2 NE Monday (December 19 1892	A.M. I 6 Pary North Wednesday December 20189
Light winds and very fine weather.	Fresh breezes and fine weather
6 3 7 4 All soil set	7 8 Pred the humps col very
8 4 9 4 10 4 Setting up rigging scaping ship outside alich repairing	Tried the pumps got very little water
P.M. I 4	10 8 11 7 12 17 12 17 P.M. I 7
2 4 3 4 6 bound North.	P.M. I 7 scrapus outside shifting tails as repaired.
1 four masted ships 2 ships and 1 Bark in company.	5 7 6 7 7 7 8 7
8 3 9 3 10 4	8 7 7 9 7 10 7 10 7 10 10 10 10 10 10 10 10 10 10 10 10 10
II 5 I2 5	11 7 12 7
H. K. 1/2 R. Courses. Winds. Leeway. Temp. AIR. Temp. Water. Barom. Remarks. day of	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. ### 167. 147.3 78.7 30.02 5 10 1.29, 44.31 #### 188. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 188.
A.M. I 6 Pabs North Tuesday Wee 20 1892	A.M. I & Stely N.W. Thursday December 2,2 1892.
Moderate Northerly 5 6 winds and fine weather	Fresh breezes weather fine throughout-
ttroughout- 87 all sail det	Employeel same as yesterde,
Ship not making any water 3 ships and 1 Bk in lo	9 6
P.M. I 6 P.M. I 6 P.M. I Nowegian Bk bound North	P.M. 1 8 2 7
3 8 5 5 5 6 7 4 5 days out	3 18 4 9 5 7
6 6 7 6 8 6	
10 6 11 6	9 7 10 7 H 7
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. b	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
728.W. 127 112.0 59.9 27.35° 27.30 6°W 1.07 43.02	9316 170 145.8 87.4 32.33 32283°60 142 4613

From New York	towards fan Francisco	From New York towards San Francis	to .
A.M. I & Sulf & Minds. Leew A.M. I & Sulf & Minds. 2 & 8 & Sulf & Minds. 3 & 8 & Sulf & Su	Freday December 23 1892 Firsh half fresh breve and fine weather all sail from mednight to 9 a m walting to Louthward 9 a m tacked to westward Law a vepel a m too faroff to yeak.	H. K. 1/4 COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of A.M. I G 2 7 3 7 4 7 5 79 6 8 7 8 8 8 9 8 10 8 11 8 12 7 P.M. I 8 2 7 P.M. I 8 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2	
4 6 5 6 6 7 7 6 8 6 9 6 10 6 11 C 12 5 Course. Distance. Diff. of Lat. Departure. 78 2 120 118, 4 15.8	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 34.16 34.10 3 W 20, 46.33	4 8 5 7 6 7 7 8 8 8 9 8 10 8 11 8 12 8 Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. 942 W 165 1223 1108 37.07 36.58 2 W 2.17 49.58	Lon. by Ob.
A.M. I 4 PULG SSE 2 4 3 4 4 3 5 3 6 4 7 3 8 3 10 4 II 3	Laturolay December 24 1892 Ceght winds and fine week. Throughout. Oumps attended ship making hardly any water	H. K. 1/2 K. Courses. Winds. Leeway. TEMP. Air. TEMP. WATER. BAROM. REMARKS. day of A.M. I 8 YW Winds. Leeway. TEMP. Air. TEMP. WATER. BAROM. REMARKS. day of	18ge Electronia
P.M. I 4 2 4 3 3 4 3 5 3 6 4 7 3 8 4 9 3 10 4 11 3 12 4	Theflet some of our repaired sails.	P.M. I 6 2 7 3 9 4 7 5248 FW 5 7 8 7 8 7 9 7 10 9 10 7	# CS
Course, Distance. Diff. of Lat. Departure. I	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 35-12 33.75 3 W 1.08 47.41	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Ply (2) 132 1266 39.2. 3905? 3909 50. 50. 50.08	Lon. by Ob.

From New York towards Lan Francisco	From New York towards Lan Francisco
A.M. I Jouth Why IM Tuesday December 27 1892	A.M. I 5- SW NWhW pr-Thursday December 29 1892
freeze and puffy.	3 5- Obrong winds and heavy squalls weather clear
6 3- Weather harry. 7 5- a ship in company 8 3 2/2 Top gallant sails I facky	1 Under short sail. 7 6 8 5 9 6 and reeving off new year
7 PM a vrolent squall 11 3 12 3 PM 1 3	10 5° 11 6 12 5°
P.M. I 2, 2 3 3 2, 4 3 P.M. I 2, stoprail furled upper loping and mainsail am reafed toprails & mainsay	P.M. I 5
6 4 dernig night beck full of water . 7 9 a. m. shifted fore lop gallant said	54 days out -
Ship not making more water 9 4 5-2 clays out then usual	8 5- 9 5- 10 5
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by Ob.
926 £ 87 77.9 38.2 40.24 40.15 \$ £ 49. 49.19 H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I 4 SPW Wyl 1 M. Wednesday December 2.8 1892	945W 124 87.7 87.7 42.34 42.28 11W 15-9 5204 H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I 3 SW NW IN Fixeday December 30 1892
Weather oqually winds light- between oqualls.	Blowing a gale all this day
Jaking in and making sail according to weather 7 2 8 2. Split main top mast staysail	Moder short soul. 8 a m wore ship to Northward 9 a m wore ship to Northward 9 a m wore ship to Northward 9 and light ming thip yucker 2 lower
again, unbent it for repairs 10 2 11 12 12 A ship in company.	10 3 Decks full of water.
P.M. I 3 2W NW	P.M. I 3 2 2 3 3
4 3 5 4 6 3 7 4	4 2
8 3 9 4 10 3	9 3 WNW SWhy8 2 ph.
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	II 3 I2 2. Course. Distance. Diff. of Lat. Departure. Lat by D.R.
833 W 67 5-5-8 36.6 41.11 41.07 9° W -48. 50.07	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob. S61W 52 25.9 45.8 42.54 00 128 103 53.07

From New York towards San Francisco	From New York towards Lan Francisco
H. K. ½K. COURSES, WINDS, LEEWAY, TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I 3 From W SW 6 ph Saturday Recember 31 1892 2 2 NW to PM Ship hove to on Port Lace 3 3 NNW Blowing a violent-gale with	AM. I 9 Stelle fre North Monday January 2. 1893 Commences with fresh breeze
terrifie squalls. Blew away lower fore and main topsails	4 16 and clear weather increasing 5 10 5 10 6 10 4 calle with thunder and
10 2 Secks full of waler Cabin and law elected by laboring of the avily 5 a m gale taking off the section of th	lightning. split lower fore.
P.M. I 3 Day ends with gale moderation a this in company.	P.M. I 11. Ships making very little water
2 2 2 3 3 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
8 2 9 3 Pumps carefully allended	1 6 12 7 11 8 11 9 10 NW 58 days out
10 3 11 3 12 4 SWYW 1pl- 5-6 days out-	10 /2. 11 // 12 /0
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by 145-60 8 5.7 5.7 4248 43.02 128 3. 525-8 H. K. ½K. Courses. Winds. Leeway. Temp. Air. Temp. Water. Barom. Remarks. day of 18	Distance. Distance. Diff. of Lat. Departure. Lat. by D.R., Lat. by Ob., Variation. Diff. of Lon. Lon. by Ob. 173 W 252 732 2411 4434 4443 128 5357 6044
A.M. I 5 WIW Sty & Sunday January 1 1893 2 6 3 6 4 6	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I 9 PW Why Tuesday January 3 1893 2 9 France Vor to Ph. 15-
Latter part fresh breeze. 66 am spoke Br Ship Firth of	from loon to pm strong breeze and squally. Taking in and setting small bails according to weather. Remainder of day.
9 4 SW ESE for Lan Francisco.	fresh breezes and fine wealtwo all plain saipset.
Day Enclo fine. All sail set-	10 5 11 5
P.M. I 1 South Var	P.M. I 5 2 5 7 2 5
4 3 W 9 W East 57 days out	3 5 4 5- 5 5- 6 5-
7 3 8 5 9 6 NE	7 5 8 5 9 5 9 5
Course, Distance. Diff. of Lat. Departure, Lat by D.P.	10 0 11 5 12 5
Course. Distance. Diff. of Lat. Departure. Lat. by D.R., Lat. by Ob. Variation. Diff. of Lon. in. Lon. by 174 W 99 25.3 95.7 43.27 43 21 12 2 21 55.09	Distance. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by Ob. 136 109.2 109.2 81.0 46.32 46.27 138 1.57 62.41

From New York towards Lan Francisco	From New York towards Lan Francisco
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of
A.M. I 5 Skyle West Wednesday January 4 1893	A.M. 1 & South Wys Friday January 6 1893 Commences with fresh breeze moderating towards midny
35 Maderate will a let	2 8
4 5 weather Throughout	Commences with fresh breeze
Moderate winds and fine weather throughout all sail set	
3 5 Ships making very lettle water	to a Calm.
	10 m spring up from the
9 4 10 4 day repairing sails.	9 Calm Eastward remainder of day fresh.
II 4 ally registering walls.	day fresh. Weather fine throughout
P.M. 1 3	
2 3	3 7 Shy East Boalowain and 2 men repairing sails.
4 4	
5 4 6 4	5 9 Fore and main troyals set
7 4	
8 4	6 10 7 9 SELGS WELGE 8 10 62 days out
9 4	8 10 9 10 62 days out
1 ₁ 5	10 10
12 5	12 10
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by Ob.
9256 103 93:1 44:0 47.50 47.54 148 1.05 63.45	928 127 126.9 3.9 52,15 52.23 17°8,5°. 66.28
Courses. WINDS. LEERWAY. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I 3 The Nage Thursday January 5 1893	A.M. I to SE NE Saturday January 7" 18 93
3 8 Fresh breezes with strong	
5 10 puffs throughout	Commences with fresh breeze. 4 76 and harry weather puffy at times
	5 6 North On it states in frage
Taking in and setting light sails according to weather	86 North Midnight to 4am Foggy
	2 Latter fart moderate and . 9 7 Cloudy, with strong puffs at home
9 9 July WNW 7 pm sighted a Barkentine	
10 7 11 7 12 7 lo Pm came up with and	11 6 North to West 11 am made land to the
P.M. I 16 SWYSIS WYN paped her.	P.M. I 7 Louthward at Noon Cape
Repairing sails	26 St- John bearing South 4.20.
	3 6 14 mile from which I take a
5 9 996	56 NE presh departure.
7 20 61 day	Jaking in and setting & mall soil according to weather.
7 10 8 10 0 9 4 17 4/1.8	8 6 6 according to water
9 9 South Wys	9 6
11 8	10 6
	12 6
Course. Distance. Diff. of Lat. Departure. Lat. by D.R, Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance, Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
945W 180 127.3 1287 50.01 50.09 188 2.48 66.33	Course. Distance. Diff. of Lat. Departure. Lat. by D.R., Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. P30E 156 133.8 802 54.37 54.31 176 2.13 64.86 6336
the state of the s	

From New York towards Lan Francisco	From New York towards San Francisco
H. K. 1/2 K. Courses. Winds. Leeway, TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I 5 JWh/Sh Why V Lunday January 8 1893	H. K. ½K. Courses. Winds. Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I 2. SELS Superage January 10 1893
Moderate with occasional strong puffs.	3 5- Elys South Commence with light breeze 4 5 and havy weather. 5 5 all said set
Taking in and setting light- sails according to wretter	7 3 9848 PSW 1882. made Diego Ramerez bearing 8 3.
10 6 10 6 10 6 10 6 10 10 6 10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 2. 10 2. 11 4. 12 4 PELSIS. S.W. about. with occasional strong puff. P.M. I 3 S.E. M. M. m to 8 a m calm.
P.M. 1 6 2 5 3 6 4 7 SW NW	P.M. 1 3 J. E. Manto 8 am calm. 10 a maheavy squall. Tookin
4 7 SW NW aback sollail of her without 6 6 Losing any. Ship making very little water	Topgallant soils. 6 Calm 7 4 Steljept. N.W. Ship making hardly any water 8 4
9 6 10 6 11 6 12 6	8 4 9 4 10 4 Swys. W.W. 66 day out
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. P5210 141 87.4 110.0 53358 5356 178 3,12 66.42	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
H. K. ½ K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER, BAROM REMARKS. day of 18	J4E 50 49.7 3.7 57.2.1 57.17 22.8 7.8 68.32 H. K. ½K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I 5 East Ply Monday January 9 1892. 2 3 3 3 Monday January 9 1892. Monday January 9 1892.	A.M. I 57 SIW WbyN 1/2PHW ednesday January 11 1893 2 4 3 4 Mediate line 1
4 4 PSW EastS.E. Cloudy. 6 4 3 PM tacked to Westward	Moderate breezes first and latter parts Middle part calm weather cloudy and showery.
Land in sight bearing West 9 4 20 m paped Bark bound North	9 2 Swyw NEW
11 4 12 4 SW SE. P.M. 1 4	10 / 11 3 12 2 P.M. 1 2 Calm 6 7 days out
3 4	2 Calm 3
5 5- 6 5- 7 5-	5 96 ° She wsw
8 5 9 5 IO 5	8 2 10 4 South
11 5 12 5	11 4 ' 12 4
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variation. Diff. of Lon. Lon. in. Lon. by Ob. 75-1 10 54 53.1 65-3 56.49 56,33 19,8 1.57 68,39	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. S400 63 48.0 40.0 58.03 58.10 22 116 69.48

From New york towards San Francisco	From New York towards San Francisco
A.M. I 5 P3/4W West 3/4 bt Thursday Jan 12 18 93 Moderate gale all this day with heavy squalls some hail.	H. K. V.K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I 5 Shipile Whyle 3/3 Rt Saturday January 14 1893 Commences with a moderate:
9 % shortened sail to reeped topsails: 7 5 SWby Sp. Wby N " am shook out reeps and set- 8 5 reefed topsallant-sails. 9 3 " " " 1 Mt	gale weather gloomy with light rain. By 7 Pm reifed topsails and maidsail. & furled topgall and sails. 9 3 2 a m Wore ship to Northward
P.M. I 2 Soatswain repairing sails P.M. I 2 Southwain repairing sails and sleeping in all night	10 3 11 3 12 3 12 3 P.M. I 2 Suly Wyv " sail. By 8 am all sail set
Ship making very little water 5 1 6 2 7 2 8 2	3 2 WNW IW . 4 2 5 3 7 3 7 3 70 days out-
9 4 NWhyN W &W 3/4 pt 68 days out - 10 4 11 4 12 4	9 4 NWYW 11 10 5- 11 5- 12 4
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. H. K. 1/2 K. Courses. Winds. Leeway. Temp. AIR. Temp. WATER. BAROM. REMARKS. day of 18	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. I.on. in. Lon. by Ob. 1
A.M. I 4 NW SWAW 12 M Feriday January 13 1893 2 4 3 4 at times and moderating for a	A.M. I 5 NW by W SW 1/2 Wt Sunday January 15" 1893 2 4 First part moderate winds
5 4 WhN WIW " short time. 4 Pm furled top gallant sails and crofsfack. a m carrying reefect Tops allant sails.	5 4 NW SWIW and fine weather Middle part breezing up took in all light sails Latter part under reefed mainsay
9 4 NW/W. I.W. " Sea high and aread ships 10 3	10 3 11 3 12 3 Top gallount-axiels and migentopsail Top gallount-axi
P.M. I 3 - NWhy W.S.W. " Water Than usual. 2 5- 3 5- 4 5-	P.M. I 4 SWAS WNW " Ship making very little water 3 5- 1 4-
5 4 6 3 7 3 8 4 PWhW NWHW n	5 6 SW/28 7 days out 7 6 8 6 9 0 1 10 10 10 10 10 10 10 10 10 10 10 10
Course, Distance, Diff. of Lat. Departure, Lat. by D.R. L	9 5 PW NWYW 10 6 11 6 12 5
Course, Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variation. Diff. of Lon. in., Lon. by (Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variation. Diff. of Lon. Lon. by Ob. \$83W 65-78 64.6 57.37 57.36 22 2 2 2 2 2 6 6 7

From New York towards San Francisco	From New York towards San Francisco
A.M. I 5 PWyWpW NW 3/4 Ht Monolay January 16" 1898. 2 4 3 3 4 3 5 3 6 3 7 3 W/4 9'/28 NW/4N 4 Deedway. A.M. I 5 PWyWpW NW 3/4 Ht Monolay January 16" 1898. Commenwes with fresh gales from New. With high sea ships pounding with it but not making much headway. A.M. I 5 PWyWpW 4 A.M. I 5 PWyWpW	A.M. I 4 Pleke N.W. 3 Pls Wednesday January 18 1893 2 5
P.M. I 3 South 80880 " from L'Es. increasing. 2 4 2. 5 1 NNW WYS " Ship making howy little water 6 1 7 16 16 19 10 10 10 10 10 10 10 10 10 10 10 10 10	P.M. I 2 Phw West " Day ends with a moderate gale 2 2 M. W. M. I and a high beam sea coursing ship 4 3 5 3 6 3 Carrying upper topsoils and mainsage
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by O N89 W 60 1.1 60.2 57.35 57.28 23.8 1.50 97.80	8 6 NWyN EVSEW 1 pt Primpes carefully attended 9 6 10 6 11 7 12 7 Course. Distance. Diff. of Lat. Departure, Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. N54W C7 7.0 (52.0 56.03 57.50 2.48 27. 79.19 H. K. ½K. Courses. Winds. Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I 6 NW Plebe There are familiar to fresh breeze and clear weather. 6 Pm furled royal, NWW WYW WYY A istayouil, 6 am Macked shipto Southward NWW Wy Wy P 18 18 18 18 18 18 18 18 18 1	A.M. I 7 NWY WSW IRM TEMP. WATER BAROM. REMARKS. day of 18 93 Throughout this day breaking and equally. a very heavy breaking sea from S.W. Taking in and making sail about all the time from lower topsails to royals. a m Ship Hora British bound to the Eastward paped us close enough to read her name.
P.M. I 4 P.M. I 4 P.M. I 4 A Worth WAN Allen part rain. 8 7 8 7 A SW NWAN A days out 7 3 days out 7 3 days out 7 3 days out 7 3 days out	P.M. I 5 Nytepe Solar Well I" 10 5 Silge freemps carefully attended the probling and Laboreng hearty making a little more water than decal. 10 5 Myter Well I" 11 5 Nyter Well I" 12 6 To days out
9 7 10 7 11 6 12 7 Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. 1 Lon. by 0 12 1 29 1 36 10 00 24 2 3 78.50	9 5- 10 5- 11 5- 12 5 Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob. 144.3 32_9 5-3.35 5-3.38 23.8 55- 78.22

From New York towards Dan Francisco	From New York towards Lan Francisco
A.M. I 6 N/2W Why 2 Mb; Friday January 20 18 9 3 Moderate gales with oceasional heavy oqualls. Resping furling and	H. K. 1/2 K. Courses. Winds. Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I & Nhyw fac west 1/2 Pho Sunday January 2 2 1893 Winds fickle from a gale to calm
making sail about all the times. 7 Pm wore to southward 5 a m wore ship to Northward	taking in reafing and making sail about all the time of m wore to the 6 7 7 6 9 am wore to Northward
the Southwest when ships is as heading to the Southward was fumping boros under and when heading to	9 5 Pk 9 8 21/2 every thing except skybails set 10 4 11 3 12 3 Weather sometimes clear sometimes
P.M. I 2. P.M. I 2. P.M. I 2. Pumps backfully attended first part rainy Latter part closely	P.M. I 4 PW Nalya 3 2 4 3 4 4 4 5 4
6 5 NW SWYW 2.4 7 5 7 8 4 9 5 76 days out	6 4 7 4 8 4 9 1 Southi WSW 10 1 NW
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by O	Course. Distance. Diff. of Lat. Departure. Lat. by D.R., Lat. by Ob., Variation. Diff. of Lon. Lon. in. Lon. by Ob.
H. K. ½K. Courses. Winds. Leeway. Temp. air. Temp. water. Barom. Remarks. day of 18	N136 36. 35.1 7.8 50.28 50.29 22.8 9. 7825- H. K. 1/2 K. Courses. Winds. Leeway. Temp. air. Temp. water. Barom. Remarks. day of 18
A.M. I 4 NW by SW 1'4 the Saturday January 2! 1893 2 4 First hay strong breeze and a heavy swell from Sw	A.M. I 5 NW/rW SW4W /2 Monday January 23 1993 2 6 3 5- 4 6 5 5- Lea Moderate,
Midnight moderating and sea going down, shook out all reefs. Latter part wind light weather	2 a m breezeng up & aqually furled all light-sails
p.M. 1 3 3 P.M. 1 3 3	9 & N/rW WyN /n 4 am furled top gallant aculs 10 & 11 '5 P.M. I 6 NYE WNW 3/4 Weather misty clearing at times
3 3 Nahr 2.8.w. 1/2	2 6 Weather musty clearing at times 3 6 Ported one of the langards of fore rigging
5 3 6 3 7 7 days out	5 6 Swhy8fs. 1 6 6 7 5 8 6
9 3 10 3 11 3 12 3	9 5 Nyw 1 10 5 11 5 12 8
Course, Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in., Lon. by O Ni W 1/3 106.6 22.8 37.01 31.03 22.8 37. 78.16	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. North 76. 75.8 00.7 49.13 49.11 228 00 78.2-57

From New York towards Jan Francisco	From New York towards fan Francisco
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. ½K. Courses. Winds. Leeway. Temp. air. Temp. water. Barom. Remarks. day of 18
A.M. I 5 Nyllike West-1/2 M. Tuesday January 24 1893. 2 Pm wind increasing reged for & morgan topsails 7 Pm shook out reefs. 2 a m set top gallant sails	A.M. I 9 Nely Silly or Thursday January 26 1893 Fresh steady breezes and cloudy weather throughout all sail set
2 a m set top gallant sails 9 4 Nhwhw West- 1/2 Day ends with a strong breeze wind hauled into I've. and cleared of about 11 a.m. previous foggry is P.M. I 4 Nhill 3/4 mishy. Set-all sail	Employed repairing sails and working on the rigging aloft- 10 10 Bilge pump, carefully attended 12 8
P.M. I 4 Nhje : 3/4 Bilge pump attended 5 5 5 N3/4 W WhN 3/4 6 5	P.M. I 8 2 8 3 8 4 9 5 9 6 10 8 2 days out
7 4 8 4 9 6 Ngw 3/4 80 days out - 10 6 11 6 12 3 Nw Suyw 3/4	7 10 8 10 9 10 10 16 11 10
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by O	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob.
N. 16°E 106 101.8 29.0 47.29 47.20 22E 43. 77 42 H. K. 1/2 K. COURSES. WINDS. LEEWAY TEMP AIR TEMP WATER BADON DEMANDED 100.6 2	Nii W 220 215-8 42.9 40.40 40.45 22.8 59. 79.05
A.M. 1 4 NW lyN SW lyW /2pt Fresh breezes and cloudy weather throughout. 3 6 4 7 5 8 6 8 6 8 7 8 8 8 9 7 10 8 11 9 12 9 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10 7	A.M. I 10 NWY PWYS Friedry, January, 27, 1893 Fresh breezes and fine weather Mirroughouth All sail set Comployed repairing sails and working on rigging aloft. Bilge pumps carefully attended P.M. I 8 P.M. I 8 3 8 4 7 5 7 7 7 8 7 9 9 10 6 9 9 10 6 11 8 2 8 3 8 4 7 5 7 7 7 8 7 9 9 10 6 9 9 10 6 9 9 10 8 11 8 2 8 3 8 4 7 5 7 7 7 8 7 9 9 10 6 9 9 10 6 9 9 10 6 9 9 10 6 9 9 10 6 11 8 12 8 3 8 4 7 5 7 7 7 8 7 9 9 10 6 11 9 10 6
Course, Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variation. Diff. of Lon. Lon. in., Lon. by O	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob. N34 W 200 166.3 111.1 37.59 37.54 226. 223 81.28

From New York towards Jan Francisco	From New York towards San Francisco
A.M. I 7 WNW SSW December of the steady breezes throughout west occasional mist. A.M. I 7 WNW SSW December of the steady breezes throughout weather overcast with occasional mist. A.M. I 7 WNW SSW December of the steady breezes throughout weather overcast with occasional mist.	A.M. I 4 NWYW From Monday January 30 1893 3 4 S.W. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 1893 Monday January 30 1893 Leeway. Temp. AIR. TEMP. WATER. BAROM. REMARKS. day of 1893 Monday January 30 1893 Leeway. Temp. Water. Barom. Remarks. day of 1893 Monday January 30 1893 Leeway. Temp. Water. Barom. Remarks. day of 1893 Monday January 30 1893 Leeway. Temp. Water. Barom. Remarks. day of 1893 Monday January 30 1893 All Saul Self- All Saul Self- All Saul Self-
8 6 9 6 10 6 10 6 11 6 12 5 P.M. 1 6	Employed repairing sails and working on the rigging, and scraping this outside. All hands. P.M. I 5
A M saw a Bark bound East 4 6 5 6 7 6	P.M. I 5 2 57 3 57 4 4 5 4 6 4 7 3
8 9 10 6 11 6 12 6 Course. Distance. Diff. of Lat. Departure. Lat. by D.R, Lat. by Ob., Variation. Diff. of Lon. Lon. in., Lon. by Ob.	8 4 9 4 10 4 11 4 12 4
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 136 107 80.3 59.6 33.37 33.41 19 8 1.12 86.14 H. K. ½K. Courses. Winds. Leeway. Temp. Mater. Barom. Remarks. day of 18
A.M. 1 5- EUNE ASE Sunday January 29 1893 Maderate and overcoit all the first-part middle part very light and variable to sociable Latter part-light-SE and clear	A.M. I 4 N.W. South Two day January 31 1893. 2 4 to S.E. Light Loutherly winds and fine 4 5 1 we atter throughout. 6 5 4 all sail set
10 4 3 all sail set	Ship making hardly any water Ship making hardly any water Employed repairing sails
P.M. 1 4 2 3 2 2 3 2 4 5-	P.M. I 4 2 4 3 4 all hands.
5 5 6 4 7 8 4 9 E	4 9 5 4 6 4 ° 7 4 8 5 8 0
Course. Distance. Diff. of Lat. Departure Let by D.P.	9 4 10 5 11 5 12 4
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob, Variation. Diff. of Lon. in. Lon. by Ol. 106 75.0 75.0 34.52 34.57 218 1.26 85.02	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variation of Diff. of Lon. in. 1 Lon. by Ob. N27W 101 88.8 47.1 32.13 32.14 Dan 172. 56, 87.10

From New York towards Lan Francisco	From New York towards Dan Francisco
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR, TEMP. WATER. BAROM. REMARKS. day of 18	H. K. 1/2 K. COURSES. WINDS. LEEWAY, TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I 3 NWh'w From Wednesday February 1 21893 2 2 Strop Light airs throughout weather 4 2 fine. 6 3 7 3 8 4 9 2 10 2 11 1 12 1 P.M. I 2	A.M. I 7 NW by From Friday February 3 1892 Sast to Firesh breezes and fine weather 4 8 5 7 6 8 6 8 7 8 8 9 7 All back sel- All back sel- All bands employed scraping yards. II 8 P.M. I 7 NW by From Friday February 3 1892 Ships making very lettle wata
2 2 3 2 4 3 5 3 6 3 7 2 8 2 9 2 10 2 11 3 12 9	2 8 3 7 4 8 5 7 6 7 7 8 8 7 9 8 10 7 11 7 12 7
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 13 9 4 6 7 53, 8 39.9 31.22 31.26 16.8 47. 87.59	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. N43W 178 131.9 119.5 26.21 00 16 2.14 91.21
A.M. I 6 NW len SE to Thursday February 2 1893 3 7 4 7 6 7 6 7 8 8 9 9 10 9 11 12 9 P.M. I 2 9 3 4 8	H. K. 1/2 K. Courses. Winds. Leeway TEMP. All TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I 6 WWW From Saturday February 4 1893 NE to Maderale winds with paping 4 6 Solution of Strong Stro
5 8 6 9 7 7 7 8 7 9 7 10 7 10 7 11 7 12 8 Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob. N20W 179 168.5 60.3 29.38 28.33 16.8 1.10' 8907	5 5- 6 6 7 4 8 4 9 4 10 4 11' 4 12 4 Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Loy. in., Lon. by Ob. N51'& 125- 96.6 79.3 2444 24.41 16-2 1.27 92.48

From New York towards San Francisco	From New York towards San Francisco
H. K. ½ K. Courses. Winds. Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I 4 WNW From Sunday February 5-1893 North	A.M. I 3 West bor Tuesday February 7 1893
to East Moderate to light baffling winds . Throughout with paping showers.	Jeght winds varying from N W to 5 3 SE. weather fine throughout
6 2 Showers.	
7 3 all sail set	7 3 all sail set
First hart all hands	April not make
First part All hands scraping yards, outside, and repairing sails. P.M. I	g 3 10 3 water.
12 1 and repairing sails.	
P.M. I ! Latter hart 6 bearing the	P.M. 1 3 Employed scraping ship outside. Booms & gaffs. repairing sails and savying of langures.
3 3 Aabbath.	oalside. 00 ooms & gaff.
	4 3 repairing rouls and severy
6 4 Water.	6 2
7 4	7 3
9 3	9 3 gy days out
10 3 11 3	10 2
12 4	12 4
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob.
N 50 W 6, 47.2 38.7 23.42 23.48 15 8 42. 93.30 H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	N76.W 70 16.9 67.9 23.31 23.34 14.8 1.14 96.16
	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP, WATER. BAROM. REMARKS. day of
	A.M. I 2 NW barying Wednesday February 8 1893
3 3 4 3 to J.E. Weather fine.	NEtos Light baffling winds weather
5 3 all sail set	1 3 3 1 NEto I showery at times.
	6 2 All sail set
The state of the s	8 2 Finished scraping aloft-
Taller part employed deraping	Conhenter and one man scraping
Latter part employed deraping yards and ship outside. 11 2 12 3 P.M. I 3 2 2 Latter part employed deraping yards and ship outside. Boatswans and one man repairing sails, and seigning off and capping of languards.	11 3 bulwarks outside.
P.M. I 3 sails, and seeging off and capping of	P.M. 1 3 Boalswari and one man repairing
2 2 3 2	oals.
4 4	2 2 Employed serging off and capping languards.
6 3	5 3
93 days out	95 days out.
9 2	8 4
10 3	10 5-
11 2 2	11 3-
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variation. Diff. of Lon. Lon. in., Lon. by Ob.	
856 70 6.1 69.7 23.50 23.48 15 £ 1.26 94.56	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variation. Diff. of Lon. Lon. by Ob. 130 68 58.3 357.6 22.36 22.41 13 8 38. 96.48
	7

From New York	towards Jan Francisco	From New York towards San Francisco
A.M. I 4	Thursday February 9" 1893 Moderate winels and pleasant weather throughout All sail set Employed scraping outside repairing sails and cleaning and painting ironwork. This not making any water	A.M. I 3 NNW NE 15 Cast Colesses. Winds. Leeway. The tene with Baron. Remarks. day of 18 Leeway. Leeway. The tene with Baron. Remarks. day of 18 Leeway. Leeway. The tene with Baron. Remarks. Leeway. The tene with Baron. Remarks. Leeway. The Leeway. Leeway. The tene with Baron.
N3°EU 116 115.9 5.7	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 20.45-20.50 132 6, 965-4 AV. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 Friday February 10 1893 Light airs and calms with paping showers. Oll sail set— Variously Employed This mot making any water	Course. Distance. Diff. of Lat. Departure. Lat. by D.R., Lat. by Ob., Variation. Diff. of Lon. Lon. in. Lon. by Ob. Ng W 20 19.8 2.9 19.39 19.45 12.8 3. 97.06 H. K. 1/2 K. Courses. Winds. Letway. TENP. All TENP. WATER. BAROM. REMARKS. day of 18 A.M. I 2 NWby NE to Sunday February 12 18 9 3 2 4 East Light to moderate winds weather fine throughout— 5 4 4 4 All sail set— All sail set— This not-making any water
	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in., Lon. by Ob. 19.53 19.59 12 & 9. 97.03	P.M. I 5- 2 ' 4 3 5- 4 4 4 5 6 6 4 7 5- 8 4 9 5- 10 5- 11 6 12 7 Course. Distance. Diff. of Lat. Departure. Lat. by D.R., Lat. by Ob., Variation. Diff. of Lon. Lon. in., Lon. by Ob. N22 W 11 10 2,6 42.5. 18.16 18.2, 12 6 45. 97.57

From New York towards San Francisco	From New York towards Dan Francisco
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. 1/2 K. COURSES. WINDS, LEEWAY, TEMP, MATER BAROM REMARKS
A.M. I 5 NNW ENE to Monday February 13 1893	A.M. I & NahNhN Wednesday February 15-1893
Brisk breezes fine pleasant weather	6'1.210
1 1 1 Maroughout	4 0
	5 8 Throughout -
7 6 All sail set	7 9 All sail set-
2 7 All hands employed larring	9 10 Employed painting chains aloft-
down regging Do to	
P.M. I 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7	P.M. 1 9
	P.M. I 9 Ships not making ary water
Ships not making any water	4 9
	5 10 6 8
7 8 8 100 days out-	7 8 8
9 8	9 8
1 ₁ 8	10 0
12	12 7
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 11 15 6 15 3.6 30.4 15 48 15 45 12 32. 98.23	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by Ob. N17 W 206 197.1 59.8 9.46 9.51 118 1.06 100.16
H. K. 1/2 K. Courses. Winds. Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	N17W 206 197.1 59.8 9.46 9.51 11°E 1.00 100 16 H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I & NWhyth. NE Tuesday Feb 14 1893 to East	A.M. I 8 NNW Thursday Feb 16" 1893
3 7 Lo East Feresh breezes and fine weather	4
5 % all sail set-	3 8 4 7 5 8 all this day
	6 7 au soil set
7 / All hands larring down	Ahila not making any walis
To g Ships not making any water	8 8 Ahy not making any water
11 8	All hands employed painting F.M. I 6
P.M. I 8	P.M. I 6 Plays.
2 3 8 4 7 101 days out-	Boatswarn allday on sails
4 8 5 8	4 1/2 Carpenter and one man all
6 8	Carpenter and one man all the time scraping outside.
8 3	7 /8 103 days out -
9 7	9 7
11 7	
Course. Distance. Diff. of Lat. Departure. Lat by D.R. Lot by Ob. Vorieties. Diff. of Lat.	12 7
Course. Distance. Diff. of Lat. Departure. Lat. by D.R., Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 176. 168.4 57.1 12.57 13.03 118 5-3. 99.16	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by Ob. NILW 172 168.7 33.6 7.02 7.08 118 34.
	1 100 11. (24. 100.20.

From New York	towards Lan Francisco	From New York	towards San Francisco
A.M. I 6 Nywhie FE to East 4 4 5 4 6 4 7 5 9	Friday February 17 1893 Moderate winds and fine weather All sail sel	H. K. %K. COURSES! WINDS. LEEV A.M. I 6	Aunday February 19 1893 Moderate and fine throughout all sail sel-
9 5° 10 5° 11 5° 12 5° 12 5° 2 5° 3 5° 4 6	Ohips not making any walu- all hands employed painting aloft:	9 6 10 6 11 7 12 6 P.M. 1 6 2 6 3 6 4 7 5 6	106 days out
Course. Distance. Diff. of Lat. Departure. La	at. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	6 6 7 7 8 9 6 9 6 10 6 11 7 12 6 Course. Distance. Diff. of Lat. Departure.	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
	. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	134. W 150 132.3 70.7	CWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I 5 NOUND NIETONE 2 6 3 7 4 6. 5 6 6 6	Saturday February 18 1893 Brisk breezes and fine weather all sail set	A.M. I 6 NWb W NNE Co 2 6 East- 3 6 4 5- 5 6	Monday February 201893 Brisk breezes and fine weather Throughout
8 7	Ship not making any water.	7 6 3	all sail set all hands Employed cleaning
9 8	Boatswani repairing masts	9 6	chair plales.
P.M. 1 7	Boatswam repairing sails Carpenter and one man	11 6 12 6 P.M. 1	Carpenter and one man scraping outside. Boatowain repairing sails
3 6 4 6	scraping outside	3 6 4 6	Ship not making any water
5 6 7 7 6 8 6 9 5 10 6 11 6 12 6	105 days out	5 6 6 6 7 6 8 6 9 6 10 6 11 6	107 days out
Course, Distance. Diff. of Lat. Departure. La	t by D.R. Lat. by Ob. Variation. Diff of Lon. Lon. in. Lon. by Ob. 01 3.08 8 \(\) 1.24 102.26	100	Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.

From New York towards San Firancisco	From New York towards San Francisco
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 A.M. I 5 A.M. I 6 NWHY Forth Tuesolog February 21 1893	H. K. ½K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of
Brisk breezes and fine.	A.M. I 5 Note North Thursday February 23 1893 to N.E. Moderate with paper squalls of wind and rain; all this day
Employed cleaning and hair	Saking in and setting small sails according to weather.
Employed cleaning and painting chain plates. John Kelley a B who has been	9 4 10 7 11 5 12 8 All hands Employed sombling deak of forward house.
P.M. 1 6 feeble and diling although able tond willing to steer and do light pols all the papage laid up	P.M. I 8 Carpenter and one man wrap;
5 7 6 6 7 6 108 days out	3 75 4 75 Boalsevain repairing sails 5 6 6 5 Kelly laid up
7 8 7 9 6	7 5 8 6 9 5
10 6 11 6 12 6	10 5 11 4 12 5
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variation. Diff. of Lon., Lon. by Ob., Variation. Diff. of Lon., Lon. by Ob., H. K. ½K. Courses. Winds. Leeway. Temp. AIR. Temp. WATER. BAROM. REMARKS. day of 18	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by Ob. 138 (21.7 65-1 5.47 5.39 5.8 1.06 108.12 H. K. ½K. Courses. Winds. Leeway. Temp. AIR. Temp. WATER. BAROM. REMARKS. day of 18
A.M. I 5- MMN Northerly Wednesday February 22 1893 Rainy squally weather all this	A.M. I 1 WNW from Friday February 24 1893
5 3 N.E. taking and setting small	5 9 to 18 Igually rainy weather to 8
sæls ædreling to wlather. 8 3 9 2 Ohijs not making any water	7 8 All kands Employed sceebbing 8 8 Topgallant-forecastle.
10 1 11 2 12 3 P.M. 1 4 Cell hands Employed scrubbing forward houses	Ship ad-making any water
P.M. 1 4 2 5- 3 3 4 3	P.M. I (0) 2 8 3 8
5 3 6 3 7 9	4 % 5 10 6 8 7 8
8 3 9 2 10 3	8 9 9 8 10 8
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Course.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
190.8. 21.5- 3.46 3.43 5:8. 22. 107.06	1626 211 99.57 186.1 7.18 7.16 6.2 3.08 111.20

H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of A.M. I 8 NWGW NNE Saturday February 2 5-1893 A.I.	From New York towards San Francisco H. K. 1/2 K. Courses. Winds. Leeway. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
Jeresh breezes sopally & raing all this day. all hands Employed scrub forecastle cleck Mall sails fast part of time Relly laid ups P.M. 1 9 2 9 3 10 Ahijs not making any wate 4 9 5 8 6 9 7 10 8 9 9 9 10 10	1.M. I 10 NW by NNE Monday February 27 1893 2 10 3 10 4 10 5 10 6 10 7 10 8 9 9 10 10 10 10 11 10 10 10 11 10 2 9 3 9 10 10 11 10 2 9 3 9 10 10 11 10
1	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Log. Lon. in. Lon. by Ob. N5740 2-35 149.1 181.7 14.27 14.30 78 3.06 120.26 H. K. K. COURSES. WINDS, LARWAY MEN IN THE BARON. RIMAKES. day of 18 A.M. I 10 NW 42 NN 8 Tresh breezes and fine weather All sail set All hands employed scrubbing wheel clack. Georgianter and 1 man screpuig outside. Boalswain repairing sails Kelly laid up Telly laid up They are making anywale 115 days out 119 2 (0 3 (0) 4 9 5 10 6 10 7 10 8 10 9 9 10 10 11 9 12 10 Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. N5710 232 1472 179.3 16.57 1853 78. 3.04 123.30

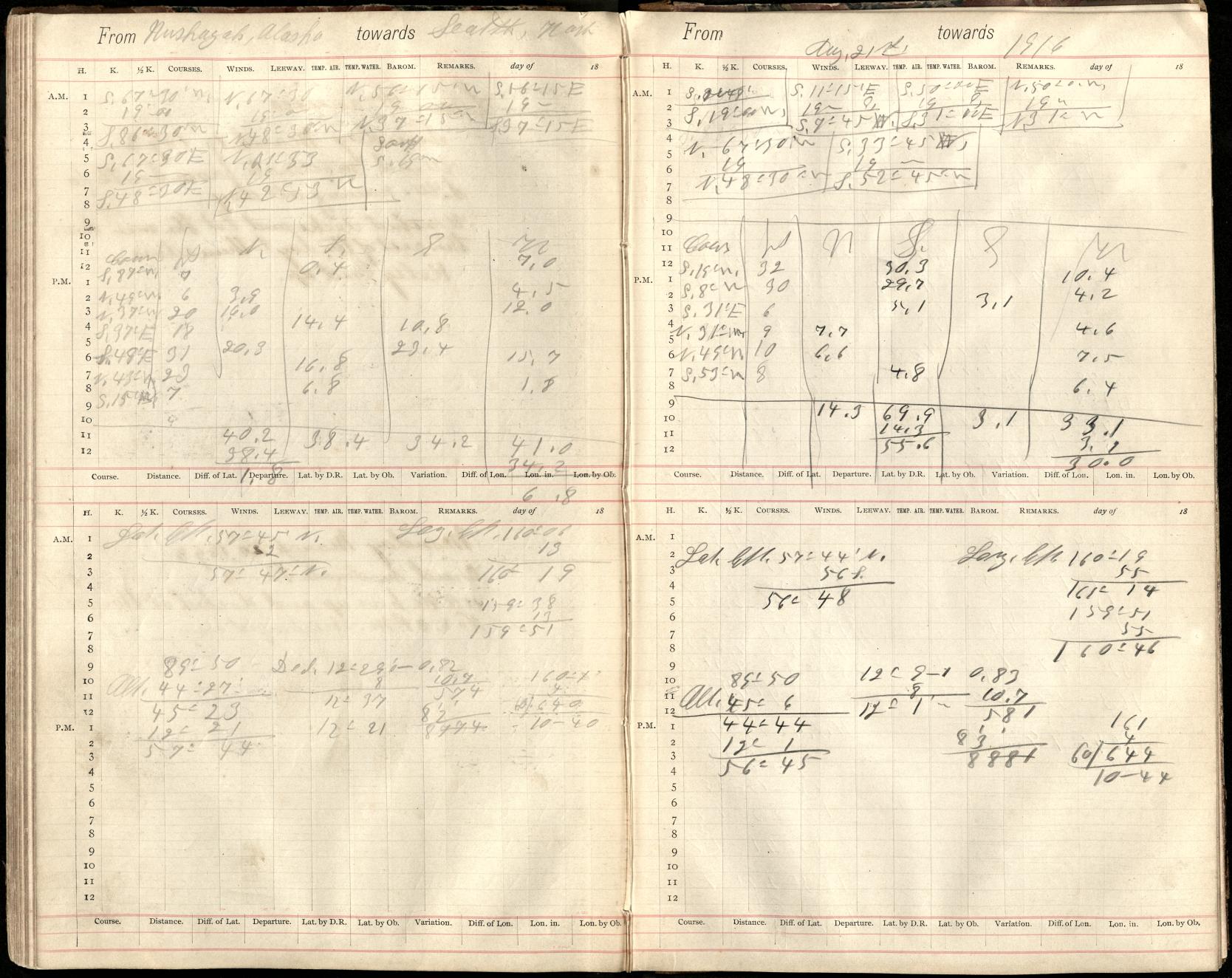
From New York tow	vards Jan Francisco	From New	York towar	ds Jan Francisco
2 8 3 7 4 6 18 weather 5 5 All s 6 4 7 3 8 3 point s 9 3 10 4 11 5 12 6 Boalor	alt winds and fine al set nols Employed scrubbing work	2	I. NE Moderal weather f all sail Employe Carpen scraping Kelly &	March 3 1893 Le winds varying about inic set al Oiling decks ter and 1 man outride and ups
6 4 7 4 8 5 9 5 10 5 11 4 12 4 P.M. I 4 2 4 3 4 4 5 5 4 6 4 7 5	BAROM. REMARKS. day of 18 Long March 2 18 9 3 A.M. A.M. Long March 2 18 9 3 A.M. Long March 2 18 9 3 A.M. A.M. A.M. Long March 2 18 9 3 A.M. A.M. A.M. Long March 2 18 9 3 A.M. A.M. A.M. Long March 2 18 9 3 A.M. A.M. A.M. Long March 2 18 9 3 A.M. A.M	H. K. ½K. COURSES. I 4	WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BA From Laturd WNW to NN Carp. Carp. outside Hell Align 119	ay March 4 1893 light, weather fine nots Employed orling auting waterways hut- nter and I man scraping le. y land up not making any weater Variation. Diff. of Lon. Lon. in. Lon. by Ob.

From New York towards San Francisco	From New York towards San Francisco
A.M. I 2 Why he from Junday March 5" 1993 A.M. I 2 Why he from Junday March 5" 1993 Light winds most of this day Low fresh, with a high head no to We 2 not frush, with a high head no to we not the same of	A.M. I 4 NWIN NE Suesday March y 1893 A.M. I 4 NWIN NE Suesday March y 1893 Commences with fresh breeze and frie weather. I PM set fib topsail and main tops gallact staysul middle part light baffing winds. Latter part brick and fine. P.M. I 5 Nalia Baff R Let Na Kells laid up. A.M. I 5 Nalia Baff R Let Na Kells laid up. Remarks. day of 1893 Re
Course. Distance. Distance. Diff of Lat. Departure. Lat. by D.R., Lat. by Ob., Variation. Diff of Lon. In. Lon. by O No. of 10 6 45.3 95.8 21.16 21.12 10 8 1.38 130.43 B. K. & K. Courses. Winds. Library. Ber. All. The Water Barrow. Remarks. day of 18 A.M. 1 5 NW NSh. Library. Ber. All. The Water Barrow. Remarks. day of 18 A.M. 1 5 NW NSh. American Monday March 6 1893 Fresh breezes with high head sea 4 P.M. furled royals and fitting mash. All hands employed soraping mash. Ahip not making any water kelly laid up P.M. 1 8 Day ends moderating 12 1 days out Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob., Variation. Diff. of Lon. Lon. by N34" 155 1239, 86.1 23.21, 23.16 11 8 1.30 132.63	H. K. 16 K. COURSES. WINDS. LEEWAY. THAT THE THE THE THE THE THE THE THE THE TH

From New York	towards San Francisco	From New York	towards San Francisco
H. K. ½K. Courses. Winds. Leev	Mi Thursday March 9 1893 Abrong breezes and a high head sign Carrying whole topsails & courses & a m wore ship to NW & set fore and main topsails allant sails thep making better time and weather on this tack, having to souch slarboard hist.	H. K. ½K. COURSES. WINDS. LEEWAY. A.M. I 4	TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 Laterday March 11 1893 Light- wareable winds all the first and middle parts Latter part moderate and steady from NNE weather fine. All soul set— Kelly laid ups
P.M. I	Relly land up. Day ends moderating royal sel Vol making any water Employed cleaning brap work 1. 124 days out	P.M. I 2. 2 2. 3 2. 4 2. 5 2. 6 3. 7 3. 8 3. 9 4. IO 4. II 4. II 4. II 4.	126 days out
Course. Distance. Diff. of Lat. Departure. Proceedings of the state o	Lat. by D.R., Lat. by Ob. Variation. Diff. of Lon. Lon. in. I Lon. by Ol 2.5.03 25.02 12 & 1.36 128.49 WAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 Friology March 10 18-9.3 Light / woulds and fine weather. Oll sail sel. Employed cleany brapwork. rd. Considerable swell from the. Northward. Kelly laid up	H. K. ½K. COURSES. WINDS. LEEWAY. A.M. I 4 NWH NE 2 5	TEMP. Ale. Lat. by 9b., Variation. Diff. of Lon. Lon. ig., Lon. by Ob. J. Ol 26.34 128 105 13107 TEMP. Ale. TEMP. WATER. BAROM. REMARKS. day of 18 Sunday March 12 1893, Brish beveryes and fine weather throughout All sail sel- Kelly laid up Ship not making any water a long high swell from N.W. 127 days out
Course, Distance. Diff. of Lat. Departure.	Lat. by D.R. Lat. by Ohl Variation. Diff of Lon. Lon. in. Lon. by 0 26. 22 26 26 12 8 1.13 130.02	11 Course. Distance. Diff. of Lat. Departure. Lat. N22 W 144 1330 53.11	t. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in Lon. by Ob.

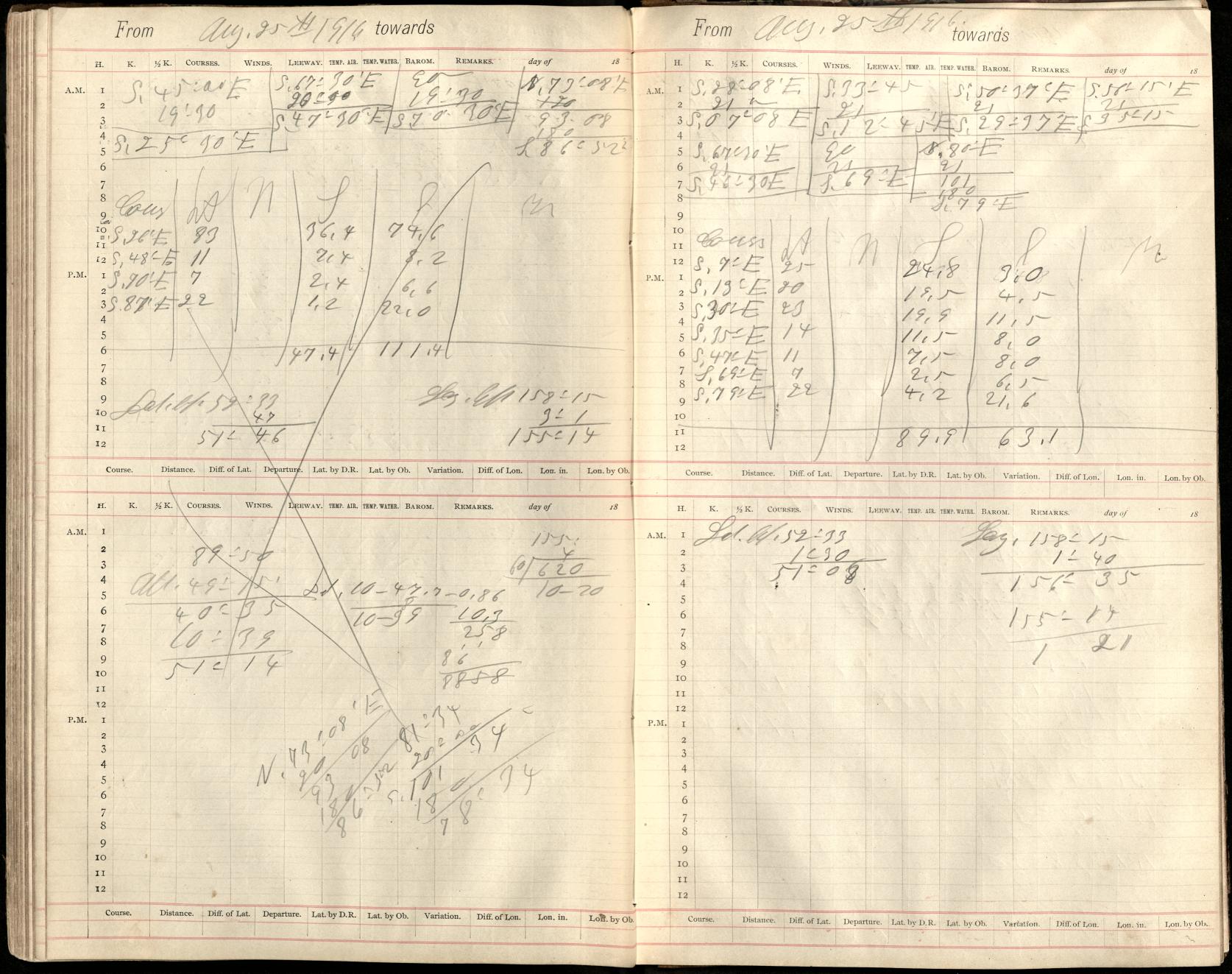
From New York	towards San Francisco	From New York	towards San Francisco
H. K. 1/2 K. COURSES. WINDS. LEEP A.M. I 37 2 4 3 3 4 2 5 2 6 2 7 1 8 1 9 2 10 2 11 2 11 2 12 2 P.M. I 2 2 3 3 3 4 4 5 4	Monday Marks. day of 18 Monday March 13 1893 First part light winds of showery weather Latter part moderate bouttwely winds and blear. All sail set Relly laid up	H. K. ½K. COURSES. WINDS. LEEY A.M. I 9	Way TEMP. AIR TEMP. WATER BAROM. REMARKS. day of 18 Wednesday March 15-1893 First part strong, ship under reefed upper main topsael and reefed mainsail. hea hegh ships rolling heavily. Latter part moderating made sail. Day 2 nds moderate royals net Kelly laid up. Melly laid up. Ahip making very lettle water
5 4 6 4 7 5 7 8 8 5 9 5 10 6 11 6		5 5 6 6 7 8 8 6 9 5 10 6 11 6	130 days out
	Lat. by D.R., Lat. by Ob., Variation. Diff. of Lon. Lon. in. Lon. by Ob. 30.22 30.16 /2 /8 . /31.52	Course. Distance. Diff. of Lat. Departure.	Lat. by D.R. Lat. by Ob., Variation. Diff. of Lou. Lon. in., Lon. by Ob. 34.33 3422 158 2.20 127.15
A.M. I 7 NELL SIW 2 8 NW 3 9 NW 5 9 8 8 9 9 9 10 9 11 10 12 10	Justolay Morch 14 1893 2. Pom whater buffed from I'W to N'W in a small look in all small sail, their for Topgallay sail. Shifted it: 4 Pm ship under main topgallant sail. Cradwally increasing main topsail mains ail fast. 80 m shifted lower fore topsail Day ends with a moderate gale and squally with a high sea.	A.M. I 6 North From 2 5	Thursday March 16" 1893 Thursday March 16" 1893 Moderate winds and fine weather sea going down All sail set Kelly laid ups very low- thip not making any water am a Bk in Company Employed cleaning up.
5 6 9 7 8 10 9 9 10 9 11 9 12 9 Course. Distance. Diff. of Lat. Departure. 1348 210 1746 1167	Kelly land up. this not making any water 129 days out Lat. by D.R., Lat. by Ob. Variation. Diff of Log. Lon., in. Lon. by Ob. 33.11 33.15 12. 2.19 129.35	5 6 6 7 7 8 4 9 5 10 5 11 6 12 6 Course. Distance. Diff. of Lat. Departure. 115-8 125- 119.6 36.3	Lat. by D.R, Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. 36.22 36.16 15 8 46. : 126.29

From towards
H. K. 1/2 COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER BAROM. REMARKS. day of 18 AM. I. 2 3 4 4 4 4 4 4 4 4 4 4 4 4
3 4 5 5 6 7 8 9 9 10 11 12 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by Ob.
II. K. 4K. COURSES. WINDS. LARRWAY. TER. THE THE WISE BAROM. REMARKS. day of 18 and 18



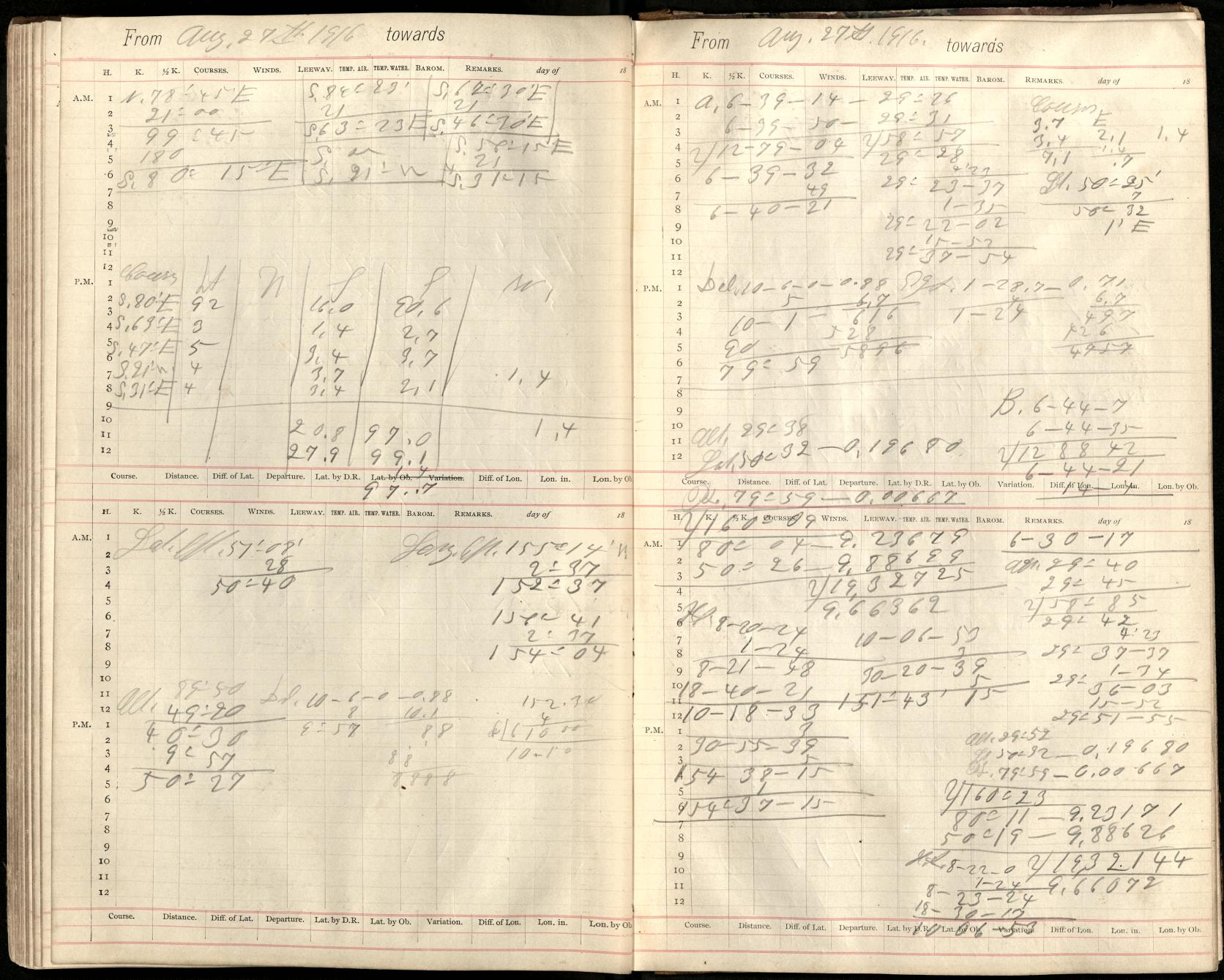
	From aug. 2721/9/6, towards	From au, 212 towards
13	II. A. /2 II. COUNSES. WINDS. CHARACTER STATES	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
12	A.M. I	A.M. $18^{9} - 25 - 25 - 25 - 25 - 25 - 25 - 25 - 2$
Course Distance First at the Street Tax by the state by the Last by the Variation Diffe Line Variation Di	11 15 9,91469 - 04, 23-04	
11. K S/K COTESSE WISH. LETONAL THE SIL THE PATH RANGE FOR SAFE S OF SAFE SAFE S OF SAFE SAFE SAFE SAFE SAFE SAFE SAFE SAF	0/1944939	
A.M. 1 $\mathcal{H}(\mathcal{H}) = \mathcal{H}(\mathcal{H}) = \mathcal{H}(\mathcal{H}$	G, 72 46 6 Lat. by Ob. Variation. Diff. of Lon. J. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. In. Lon. by Ob.
3 4 73-23 4 13-23 5 13-8-07 6 10-55-44 8 9 32-47-12 10 12 16 4-3 9 9 00 11 1/6 9-36-00 12 1/4-1 9 9 00 12 1/4-1 9 9 00 13 1/4-29-4 14 12 16 4-3 9 10 15 1/4-1 9 9 10 16 1/4-1 9 9 10 17 1/4-1 9 9 10 18 1/4-1 9 9 10 19 1/4-1 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10 10 1	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. July of 29 18	H. K. ½K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
Course, Distance. Diff. of Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. by Ob.	2 15 4 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2

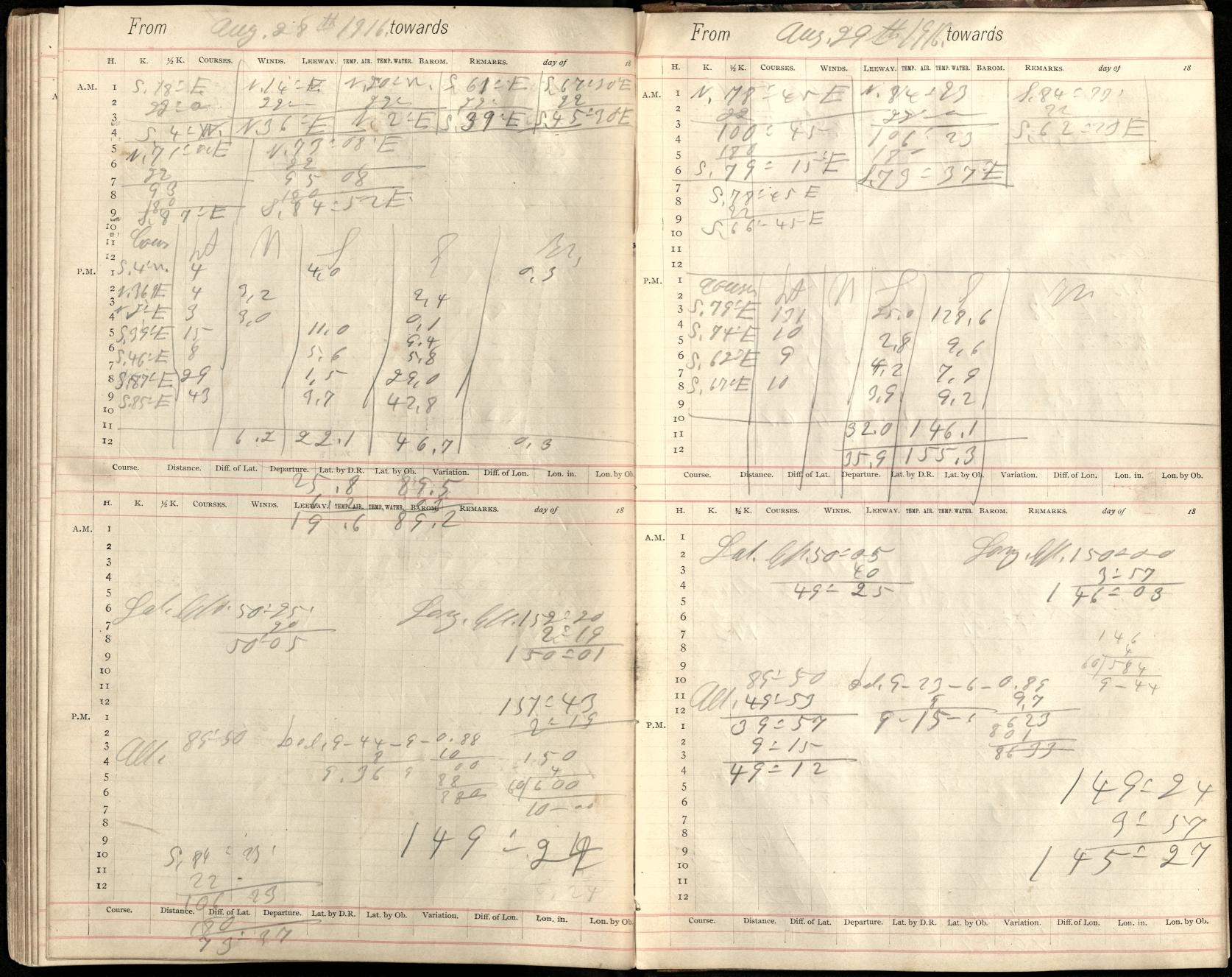
From Aug 23 Note 19/4, towards From ag. 2311/9/6 towards WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. H. K. ½ K. Courses. 1,84 COOF A.M. I S. 67:30'E 29,7-15-20 alle 29:29 Cour Night 9-16-19 992 44 S, 751 E17 2/1-9=13 3:2-20,5 Al for 53: 29:1 282 311.39 572 28 441 E 4.2 15, 3 10 all, 295 46'
11 gld, 295 46'
12 gal, 53 = 29 -0,225-27 7-33-19 59419 Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 4 — day of / WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. 780+ 55-9.19870 7-18-13 51: 09-8,89142 alli 29:50 8-21-97 70-8 8-18-59 19-116 -55 10-57-58 92-53-54 164129-30 2119:28-0128527 2 De 78-37-0,01863 20.11-28-8-0.85 164602-70 1632 18 20 Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. -02-30

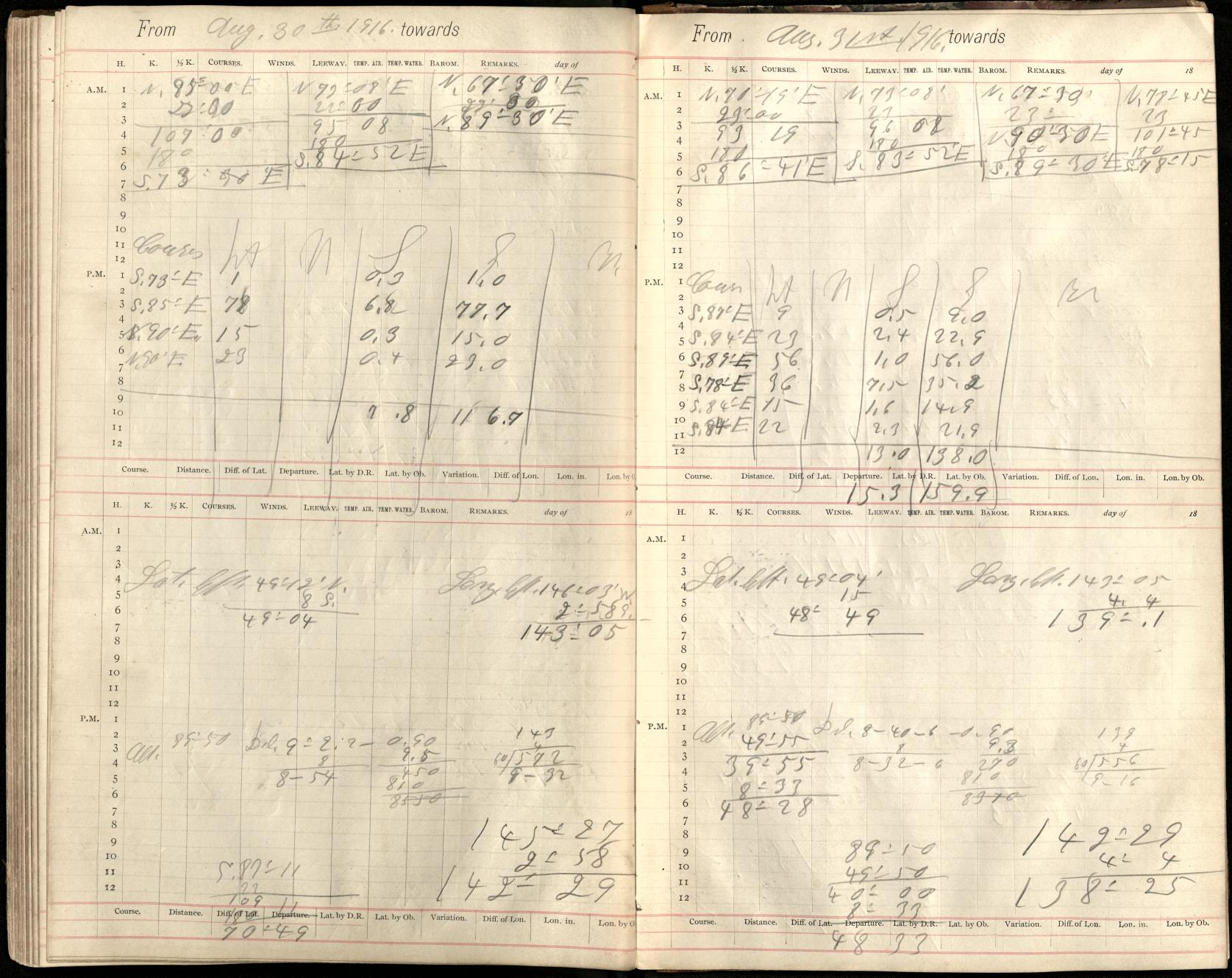


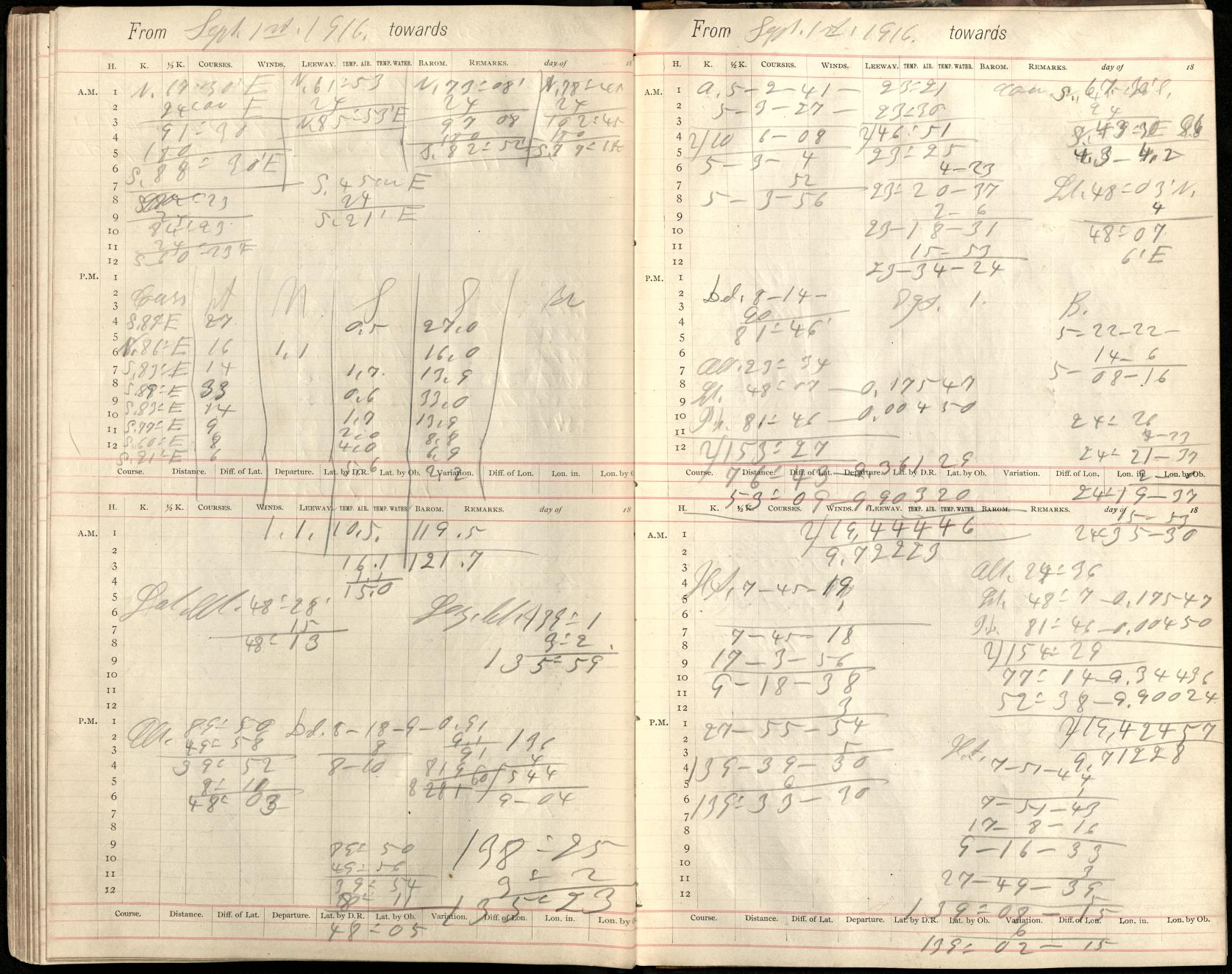
From Ous 95 th 1916 towards 12, 40" !	From aug 268/9/6towards
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I By 6-519-80-28-17 Peaus, 5.79-6, 14 28-12-37 Photosoft 14-2 28-12-37 Photosoft 14-29-12-37 Photosoft 14-29-12-37 Photosoft 15-57 8 28-26-48 27-15 8 28-26-48 27-15 10 Ddu 10-47, 77-0.86 Pas, 2-2.0-0.65	A.M. I 1/79 508 E 1/60 1/98 = X 1/E 2 2/500 4 94 08 1/88 = 70 / 99 45 5 6 5 8 5 = 5 2 / E 7 8 9 8 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12 5 6.5	P.M. I 2 1894 29 93 3 1866 3 44, 7 589. 7
To John Stance, Diff. of Lat. Departure, Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by Ob.
	Lon. by Ob.
H. K. 1/2 COURSES. WINDS. LIEWAY. THE AIR. THE WATER BAROM. REMARKS. day of 18 A.M. 1 2/1585 59 9 9 26/3/3 3 7952 29 9 9 880 80 5 1 2 0 2 - 9, 880 80 5 1 2 0 2 - 9, 880 80 7 8 8 8 1 2 - 16 8 8 1 5 9 10 11 8 - 12 - 16 12 9 4 12 18 - 14 - 98 10 1 7 9 5 8 - 90 10 17 5 5 8 - 90 10 17 5 5 8 - 90 10 17 5 5 8 - 90 11 12 COURSE. Distance. Diff of Lat. Departure. Lat. by DR. Lat. by	H. K. 1/2 K. Courses. Winds. Lewway. Teer are Early Remarks. 2 day of 18 A.M. I 2
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.

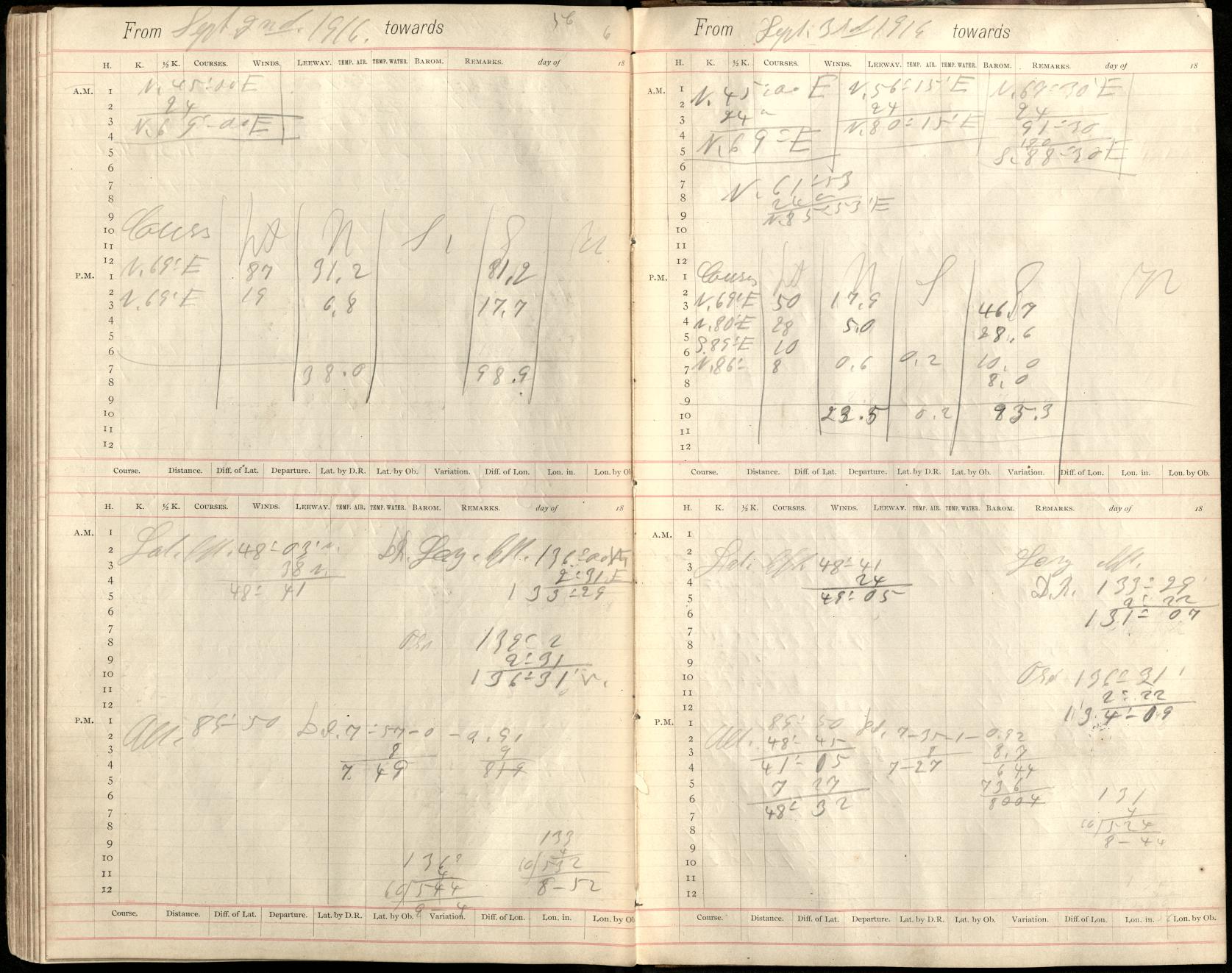
From Aug 20 His towards	From towards
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
THE TEN THE WITTED BADON REMADES don of	H. K. ½K. COURSES. WINDS. LEEWAY. THE AIR THE VALUE BAROM. REMARKS. day of 18 A.M. I 2 3 4 4 4 5 6 7 8 9 10 11 12 9 7 P.M. I 2 3 4 5 6 7 7 9 10 11 12 9 10 11 12 9 10 11 12 9 10 11 12 9 10 11 12 9 10 11 11 12 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18
103/-3/-35	10 11
Course Distance Diff of Let Departure L. 1. D.D.	, 12
Course. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by Ob.
157.06 15-	

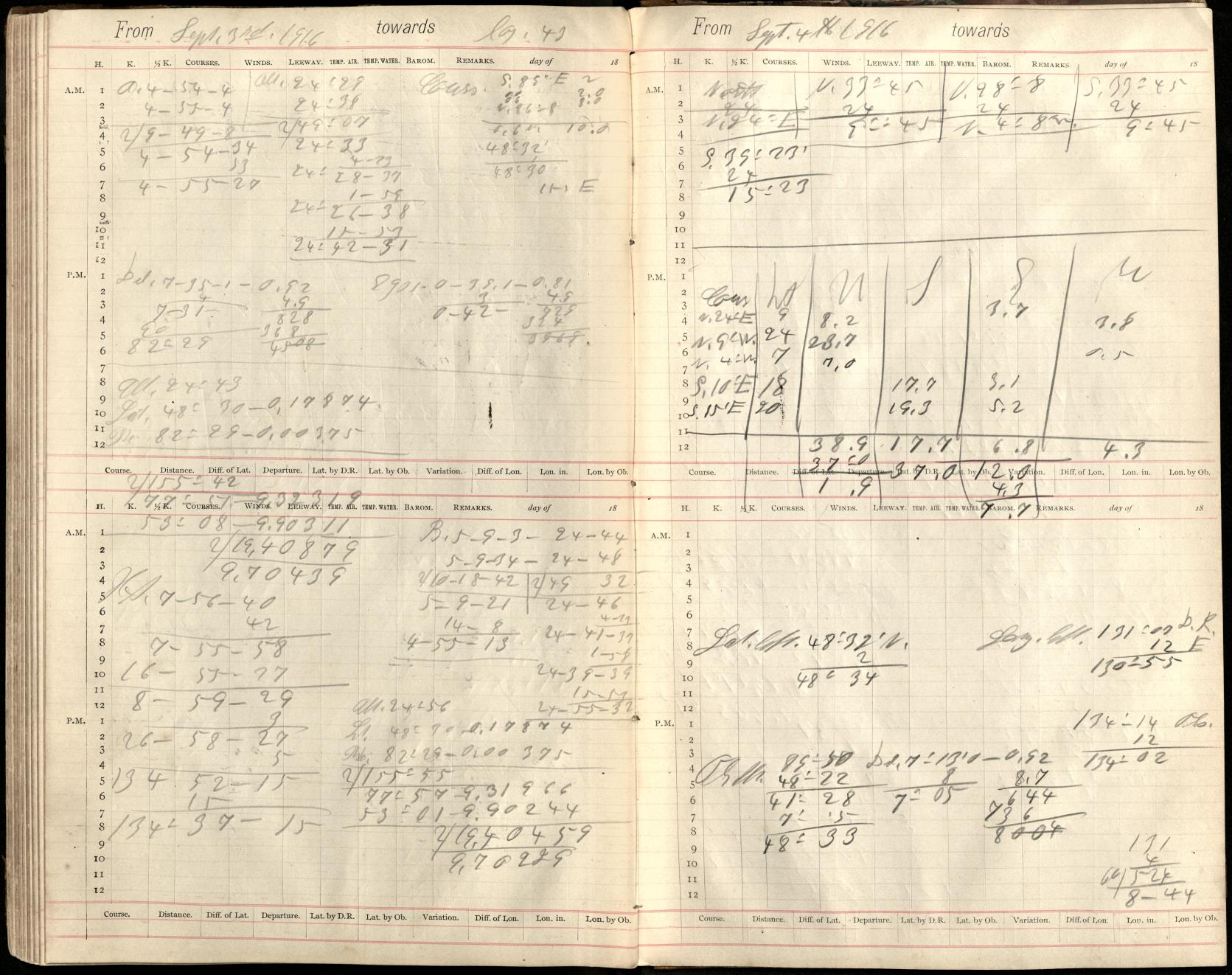




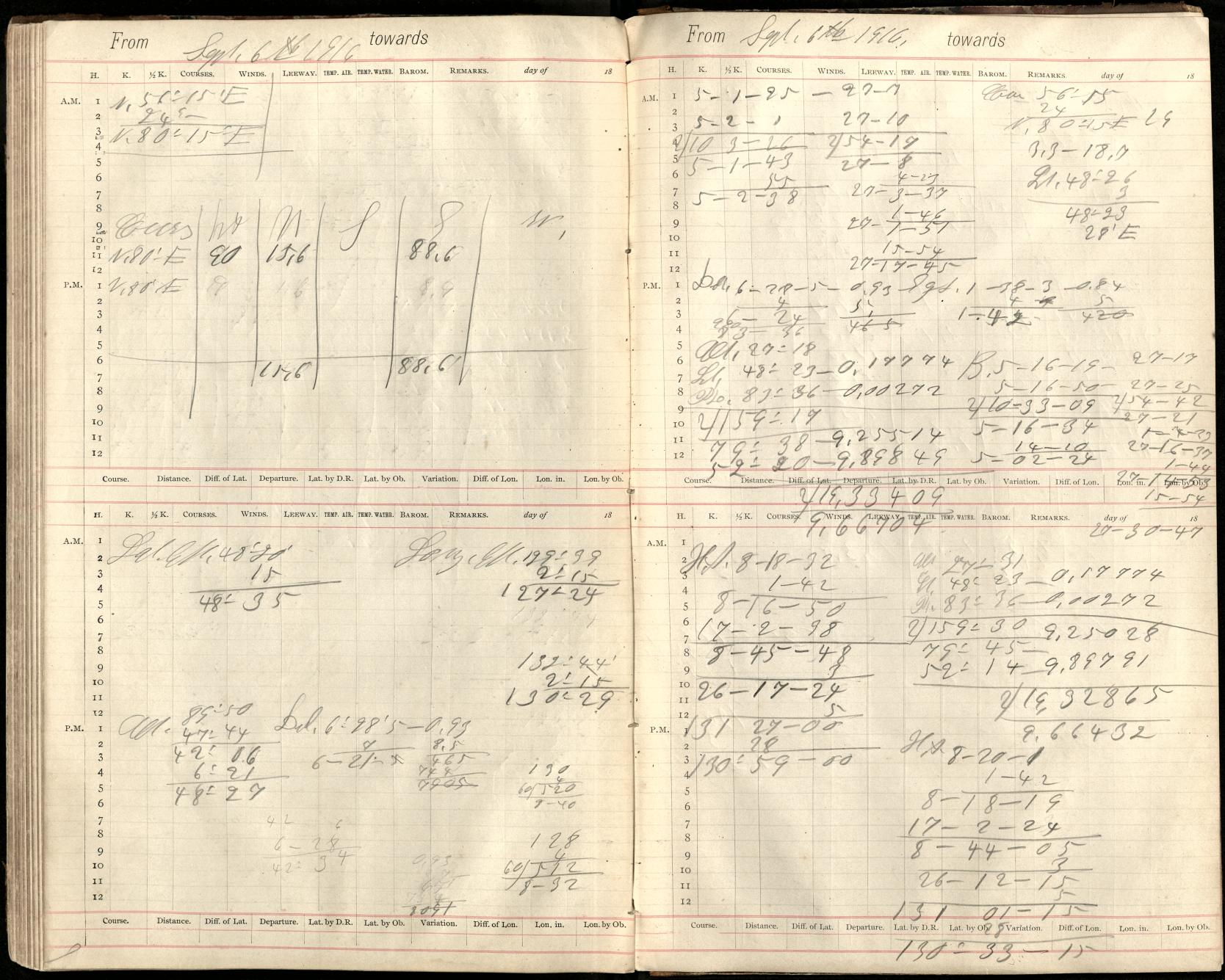








From Sept. 4 H 1916, towards	From Syn. 92 1916, towards
H. K. ½ K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. 105-49-57- 31-57 Course, S. 15'E17	: A.M. I S. 50011- E S. 5 5 400 V. 88070 WM480E
2 59 1125	2 24 - 24 24
3 5-44-80 31-46-31 Steller 48:33	3 592511 E 5.95 00 E 1=30 1.69E
11-43-16-	5 1,56215 E
6 15-53 48-49	7 24
32501-04 8 10 0000 000 000 7'E	8 1/8 0 = 10 = 1
9 Del, 9-19-0-0.92 99-0. 18.6-0.82	IO IO
11 9-8 644	II II
P.M. I 80 70 70 70 70 70 70 70 70 70 70 70 70 70	P.M. I Cours A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
B.5-58-96-32-02	2 3 3 3 2 EV 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4 11/1-921 11	45.95 E 15
5 9 48: 49-0,181 46 2/11 58 29 2/64 14	64,21 E 8 8,0 12,3 8,6
7 1. 82- 52-1.00337 5-59-11 32:07	7-NGSIE 4 1,4
94163-42 5-45-03 12 2-17	94.802 11. 119 10.8
10 912 51 9,157 32 1-25	10 1,80 1 19 1 3,3 1 18,77
12 496 80 9.88318	11 12
Course. Distance. Diff. of Lat. Departure, Lat. by DR. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	
The state of the s	11,4959191
H. K. 1/2 K. COURSES. WINDS. LEEWLY, TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. V.K. Courses. Winds. Leeway temp air tempwater Barom. Remarks. day of 18
A.M. I. 968-47-46 . alle 32217	A,M, I
3 1-3 21. 48-49-0.18146	3
4 8-46-43 Pole: 82:52-0,00997	£ 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
6-17-44-50 2/163=58	. 6 Jal M. 48=33.1. Long. M. 130:55.
7 7 7 6 10 01, 59 9 14445	
9 9 49 42 9,88 27	125235
10 26-54-21 3/1821162	to
12 5 9 10581	12 00 00 00 10 1000
P.M. I / 34 - 31 - 45	P.M. I Me 48 + 13 kul. 6 - 50'8 - 0.89 132 = 44
3 4 7 4 - 45 8-48-34	3 48 90 6-42 18 751
4/34-24-45 8-48-34	5 6 + 43
17-45-63 7	6 4 84 20
8-56-29	8
26-49-22	9 10 /72
11 12 194209-15	60/1/20
	Course Distance Dista
Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in, Lon. by Ob.



From Sent 7 # 19/9 towards	From	towards
H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. ½K. Courses.	WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I 1/56-15 E 1/67-20 E 2455 3 1/80-15 E 1/80-75 5 6	A.M. I 2 3 4 5 6	
7 1 4 5 20 E 1 39 2 4 1 E 1 1 90 2 8 1 8 2 2 5 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1	7 8 9 10 11 12 P.M. I	
2 3 180 E 42 7.3 1,1 62 6 4 8.89 E 62 7.3 1,1 62 6 5 5.88 E MA 11 0 2 11 10 71.180 E 1 0 2	2 3 4 5 6 7	
Solve	9 10 11 12 Course. Distance. Diff	f. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
H. K. 1/2 K. Courses. Winds. Leeway. Temp. air. Temp. water. Barom. Remarks. day of 18	H. K. ½K. COURSES. A.M. I	WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A.M. I 2 3 4 5 6 7 8 9 10 48 21 34 11 21 21 21 21 21 21 21 21 2	3 4	
P.M. I 2 3 10 11 12 12 12 12 2 3 12 2 3 12 2 3 12 12	10 11 12 P.M. 1	
2 3 4 5	2 3 4 5	
	6 7 8 9	
10 11 12	10 11 12	
Course, Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by O	b. Course. Distance. Di	iff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.

From Repair List towards Kan 1916-19 A.M. I Repair 20. 1976-17 Now Logs in gallant Mat head She we lote Non Bomsprid vero poss non days stay correct and Jost lomes dogsand zandasn solles 4 ft. Bolsto - Man Mad & rena vers her, n gallens n a June Jul a carried ang. Men Dogs a Dessais Barn. Non Days a Man Zangen Spanled Slong a Man Gair So starts New Load Eges an Barm Shands, P.M. I V u Ison Link a 2 3 V n Hile Langured for Bottless, For day. Repair engery, Mayer Jan. Betwee Sech me Lech mi Frehemm gant 7 Myller Johns Spain grant pres in
8 9 10 Johns Johns Johns Jane Jane Leine Alexan Arysy 12 Jose Gald Ha Komen Min folses Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in.

H. K. 1/2 K. Courses. Winds. Leeway. Temp. AIR. Temp. Water. Barom. Remarks. day of K. 1/2 K. COURSES. WINDS LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18 u say and in Manichagy 3 Hen Languedo lenas ligge, 5 Heal Bass Mant chims in Doubling and An Dech, under Mant car Starford Rahl on Farand Lead Lead Separation Isan Jank on Ehren quanto chippe en a under Finench Bulk Myst head Bills reform added 4 " on Doch to chique How Chair a Horse andre & square Somhis over Kanled Earhead follow sphar New Hood for banks Throchstack 1 9 For Jenes Sopron She Butho Starley 10 Now Bahn Shi hype Seven, Man are My J. The Has Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. Harton and Stad & seven Thedes sh Harn's Over Ston for anale Boars

	From	From	towards
	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARK	H. K. ½K. Courses.	WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
		A.M. I	
A	A.M. I 2	2	
		3 4	
	5	5	
	6	6	
	7 8	8	
	9	9	
	IO	ii	
	12	D.W. J.	
	P.M. I	P.M. I 2	
	3	3 4	
	5	5	
		6	
	7 8	8	
	9	9	
	IO II	II IO	
	12	12	
	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation.	Diff. of Lon. in. Lon. in. Course. Distance. Diff.	of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
	H V VV Comment	H. K. ½K. Courses.	WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
	H. K. ½K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMA	iras.	WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
	A.M. I 2	A.M. I 2	
	3	3	
	5	5	
	6	6	
	7 8	7 8	
	9	9	
	IO II	IO	
	12	12	
	P.M. I	P.M. I	
		3	
	4 5	4 5	
	6	6	
	7 9	7 8	
	8 9	9	
	10	10	
	12	12	
			of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
A R. P. C.	Course, Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation.	with Step Lon, in.	
1	Lat. by Ob. Variation.	Diff. of Lon.	

	From		towar		From .		towards	
P.M.	H. K. ½K. I 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 1 12 1 1 12 1 1 12 1 1 1 12 1	COURSES. WINDS.	LEEWAY. TEMP. AIR. TEMP. WATER. BAS	ROM. REMARKS. day of	H. K. ½K. Course	RSES. WINDS. LEEWAY. TEMP. AIR		day of 18
A.M.	H. K. ½ K.		re. Lat. by D.R. Lat. by Ob. VEEWAY. TEMP. AIR. TEMP. WATER. BAROM	Variation. Diff. of Lon. Lon. in. Lon. by REMARKS. day of		Diff. of Lat. Departure. Lat. by D.F. URSES. WINDS. LEEWAY. TEMP. AI	R. Lat. by Ob. Variation. Diff. of Loi R. TEMP. WATER. BAROM. REMARKS.	Lon. in. Lon. by Ob. day of 18
P.M.	2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9				2 3 4 5 6 7 8 9 10 11 12 P.M. 1 2 3 4 5 6 7 8			
	Course. Distance.	Diff. of Lat. Departure.	Lat. by D.R. Lat. by Ob. Varia	ation. Diff. of Lon. Lon. in. Lon. by	TO TI T2 Course. Distance.	Diff. of Lat. Departure. Lat, by D.	R. Lat. by Ob. Variation. Diff. of Lo	n. Lon. in. Lon. by Ob

	From	towards	From	towards
	H. K. ½K. Courses.	WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. ½K. Courses	S. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A	A.M. I 2 3 4 4 5 6 7 8		A.M. I 2 3 4 5 6 7 8 8	
	9 IO E F II		9 10 11	
	P.M. I 2 3 4 5		P.M. I 2 3 4 5	
	6 7 8 9		6 7 8 9	
	11 12		11 12	
		F Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18		Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
	A.M. I 2 3 4	WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. ½K. COUR A.M. I 2 3 4	SES. WINDS, LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
	5 6 7 8 9		5 6 7 8	
	10 11 12 P.M. 1		9 10 11 12 P.M. 1	
	3 4 5 6 7		3 4 5 6 7	
	8 9 10 11 12		8 9 10 11 12	
	Course. Distance. Diff. of	Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.	P	Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon., in. Lon. by O
W.				

	From New York towards San Francisco	From towards
	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
A	A.M. I New Gear rove off. B. F. Packard.	A.M. I
	3 Noviger Lanyards Main top gallant-backstays. 4 5 " 9. " " Fore " " 2 Starboard 1 port-	3
	5 " 9. " Fore " " 2 Starboard 1 port	5
	Dec 17 " Fore top mast backslays 2 after ones	6
	8 " 18 " Main " 4	
	16 Dec 22 Starboard fore top gallant leach line & buntline 2%	9 10
	P.M. II " Jib topsail halliards half. 2.3	11
	P.M. (I " mirjen top gallant halliards	/2 P.M. I
	3 " Fore Clew garnets	3/4 3
	5 " 23 main top gallant stay sail downhaul 2	3/4 4
	" miren top gallant braces	
	18 4 29 Fore lower topsail builtines	2/4 . 8
	9 " " Main royal clewanes and starboard buntline 2	
	II " 30 Muzen royal halleard runner second hand rope.	II
	Common Distance Dista	12
	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by	Ob. Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. by Ob.
	H. K. ½K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18	H. K. 1/2 K. COURSES. WINDS. LEEWAY. TEMP. AIR. TEMP. WATER. BAROM. REMARKS. day of 18
	A.M. I	A.M. I
	3	
	5	4 5
	6	6
	9	9
	11	II'
	P.M. I	.м. I
	4 5	. 4
		6
	8	7 8
-	9.	9
	II	II II
	Course Distance Distance Distance	12
	Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. in. Lon. by	Ob. Course. Distance. Diff. of Lat. Departure. Lat. by D.R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.
A		

